Applications and Advances in Electronic-Nose Technolo

Sensors

9, 5099-5148

DOI: 10.3390/s90705099

Citation Report

#	Article	IF	CITATIONS
1	Pathogen Sensors. Sensors, 2009, 9, 8610-8612.	2.1	9
4	Semiconductor Gas Sensors: Dry Synthesis and Application. Angewandte Chemie - International Edition, 2010, 49, 7632-7659.	7.2	474
5	Biomimetic-based odor and taste sensing systems to food quality and safety characterization: An overview on basic principles and recent achievements. Journal of Food Engineering, 2010, 100, 377-387.	2.7	131
6	Evaluation of Three Electronic Noses for Detecting Incipient Wood Decay. Sensors, 2010, 10, 1062-1092.	2.1	57
7	Data Refinement and Channel Selection for a Portable E-Nose System by the Use of Feature Feedback. Sensors, 2010, 10, 10387-10400.	2.1	16
8	A Novel Odor Key Technique for Security Applications Using Electronic Nose System. American Journal of Applied Sciences, 2010, 7, 1118-1122.	0.1	4
9	Rapid Screening of <i>Alicyclobacillus acidoterrestris </i> Spoilage of Fruit Juices by Electronic Nose: A Confirmation Study. Journal of Sensors, 2010, 2010, 1-9.	0.6	75
10	Colorimetric Sensor Array for Determination and Identification of Toxic Industrial Chemicals. Analytical Chemistry, 2010, 82, 9433-9440.	3.2	200
11	Development of a Portable Electronic Nose System for the Detection and Classification of Fruity Odors. Sensors, 2010, 10, 9179-9193.	2.1	99
12	VLSI silicon multi-gas analyzer coupling gas chromatography and NEMS detectors. , 2011, , .		17
13	Mimicking Biological Design and Computing Principles in Artificial Olfaction. ACS Chemical Neuroscience, 2011, 2, 487-499.	1.7	39
14	Application of Sensory and Instrumental Volatile Analyses to Dairy Products. Annual Review of Food Science and Technology, 2011, 2, 395-421.	5.1	26
15	Advances in Electronic-Nose Technologies Developed for Biomedical Applications. Sensors, 2011, 11, 1105-1176.	2.1	315
17	Bioinspired Principles for Large-Scale Networked Sensor Systems: An Overview. Sensors, 2011, 11, 4137-4151.	2.1	23
18	Electronic Noses and Tongues: Applications for the Food and Pharmaceutical Industries. Sensors, 2011, 11, 4744-4766.	2.1	412
19	Recent Advances in Environmental Analysis. Analytical Chemistry, 2011, 83, 4579-4613.	3.2	97
20	Preoxidation for Colorimetric Sensor Array Detection of VOCs. Journal of the American Chemical Society, 2011, 133, 16786-16789.	6.6	242
21	Mimicking nature's noses: From receptor deorphaning to olfactory biosensing. Progress in Neurobiology, 2011, 93, 270-296.	2.8	116

#	Article	IF	Citations
22	Rapid Identification of Bacteria with a Disposable Colorimetric Sensing Array. Journal of the American Chemical Society, 2011, 133, 7571-7576.	6.6	230
23	Quality Control Through Electronic Nose System. , 0, , .		2
24	Preventing and mitigating food bioterrorism. , 2011, , 51-69.		1
25	Analytical methods for the quantification of volatile aromatic compounds. TrAC - Trends in Analytical Chemistry, 2011, 30, 1756-1770.	5.8	55
26	Improving the training and data processing of an electronic olfactory system for the classification of virgin olive oil into quality categories. Sensors and Actuators B: Chemical, 2011, 160, 916-922.	4.0	12
27	Invited Review Article: An odor-sensing system—powerful technique for foodstuff studies. Review of Scientific Instruments, 2011, 82, 111101.	0.6	74
28	Monitoring of alcoholic fermentation using near infrared and mid infrared spectroscopies combined with electronic nose and electronic tongue. Analytica Chimica Acta, 2011, 697, 67-74.	2.6	95
29	Functionalized graphene as an aqueous phase chemiresistor sensing material. Sensors and Actuators B: Chemical, 2011, 155, 154-158.	4.0	45
30	A hybrid chemiresistive sensor system for the detection of organic vapors. Sensors and Actuators B: Chemical, 2011, 156, 715-722.	4.0	38
31	A new feature extraction method for odour classification. Sensors and Actuators B: Chemical, 2011, 158, 75-88.	4.0	24
32	Statistical pattern analysis assisted selection of polymers for odor sensor array. , 2011, , .		4
33	Single Sensor Gas Analysis Using a Microfluidic Channel. Key Engineering Materials, 0, 495, 302-305.	0.4	1
34	Using artificial neural networks to classify unknown volatile chemicals from the firings of insect olfactory sensory neurons., 2011, 2011, 2752-5.		12
35	Collective Odor Source Estimation and Search in Time-Variant Airflow Environments Using Mobile Robots. Sensors, 2011, 11, 10415-10443.	2.1	41
36	Species Discrimination among Three Kinds of Puffer Fish Using an Electronic Nose Combined with Olfactory Sensory Evaluation. Sensors, 2012, 12, 12562-12571.	2.1	26
37	Classification of Odorants in the Vapor Phase Using Composite Features for a Portable E-Nose System. Sensors, 2012, 12, 16182-16193.	2.1	11
38	Improved Maturity and Ripeness Classifications of Magnifera Indica cv. Harumanis Mangoes through Sensor Fusion of an Electronic Nose and Acoustic Sensor. Sensors, 2012, 12, 6023-6048.	2.1	62
39	Two-Dimensional Radial Laser Scanning for Circular Marker Detection and External Mobile Robot Tracking. Sensors, 2012, 12, 16482-16497.	2.1	22

#	Article	IF	Citations
40	Meat and Fish Freshness Inspection System Based on Odor Sensing. Sensors, 2012, 12, 15542-15557.	2.1	62
41	18 Fungal and Bacterial Volatile Organic Compounds: An Overview and Their Role as Ecological Signaling Agents., 2012,, 373-393.		43
42	DNA-decorated carbon nanotube-based FETs as ultrasensitive chemical sensors: Discrimination of homologues, structural isomers, and optical isomers. AIP Advances, 2012, 2, .	0.6	34
43	Effects of water molecules on binding kinetics of peptide receptor on a piezoelectric microcantilever. Applied Physics Letters, 2012, 101, .	1.5	4
44	Portable e-nose based on polymer/CNT sensor array for protein-based detection. , 2012, , .		11
45	AN APPLICATION OF SMALL-WORLD CELLULAR NEURAL NETWORKS ON ODOR CLASSIFICATION. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2012, 22, 1250013.	0.7	10
46	The Forensic Disciplines: Some Areas of Actual or Potential Application. , 2012, , 841-989.		1
47	Electronic Nose for Microbiological Quality Control of Food Products. International Journal of Electrochemistry, 2012, 2012, 1-12.	2.4	86
48	15 The Symbiotic Phenotype of Lichen-Forming Ascomycetes and Their Endo- and Epibionts. , $2012,,287-339.$		82
49	Artificial Receptors for Mass-Sensitive Sensors. , 2012, , 195-235.		4
50	Simultaneous Determination of Zn(II), Cu(II), Cd(II) and Pb(II) in Soil Samples Employing an Array of Potentiometric Sensors and an Artificial Neural Network Model. Electroanalysis, 2012, 24, 2249-2256.	1.5	23
51	A miniature gas analyzer made by integrating a chemoresistor with a microchannel. Lab on A Chip, 2012, 12, 1874.	3.1	43
53	Mechanical Drawing of Gas Sensors on Paper. Angewandte Chemie - International Edition, 2012, 51, 10740-10745.	7.2	152
54	Fungal volatile organic compounds: A review with emphasis on their biotechnological potential. Fungal Biology Reviews, 2012, 26, 73-83.	1.9	383
55	Advanced Methods for Teaching Electronic-Nose Technologies to Diagnosticians and Clinical Laboratory Technicians. Procedia, Social and Behavioral Sciences, 2012, 46, 4544-4554.	0.5	7
56	Diabetes diagnosis by direct measurement from urine odor using electronic nose. , 2012, , .		19
57	Specific Single-Molecule Detection Based on Orbital Mediated Tunneling in Nanotube Double-Barrier Heterostructures. IEEE Nanotechnology Magazine, 2012, 11, 1174-1182.	1.1	2
58	Selective recognition of xylene isomers using ZnO–SWNTs hybrid gas sensors. Analyst, The, 2012, 137, 2549.	1.7	13

#	Article	IF	Citations
59	Hand-Held Electronic Nose Sensor Selection System for Basal Stamp Rot (BSR) Disease Detection. , 2012, , .		19
60	Sensors and Systems for the Detection of Explosive Devices - An Overview. Metrology and Measurement Systems, 2012, 19, 3-28.	1.4	88
61	Review of Electronic-nose Technologies and Algorithms to Detect Hazardous Chemicals in the Environment. Procedia Technology, 2012, $1,453-463$.	1.1	193
62	Interaction of nitrogen dioxide with sulfonamide-substituted phthalocyanines: Towards NO2 gas sensor. Sensors and Actuators B: Chemical, 2012, 169, 1-9.	4.0	28
63	Use of an electronic nose to estimate paper insulation degradation. , 2012, , .		2
64	Synthetic lectin arrays for the detection and discrimination of cancer associated glycans and cell lines. Chemical Science, $2012, 3, 1147$.	3.7	44
65	Biology and applications of olfactory sensing system: A review. Sensors and Actuators B: Chemical, 2012, 171-172, 1-17.	4.0	108
66	Multifunctionalized Cantilever Systems for Electronic Nose Applications. Analytical Chemistry, 2012, 84, 8240-8245.	3.2	24
67	Fluorescent DNAs printed on paper: sensing food spoilage and ripening in the vapor phase. Chemical Science, 2012, 3, 2542.	3.7	44
68	Dual-transduction-mode sensing approach for chemical detection. Sensors and Actuators B: Chemical, 2012, 174, 366-372.	4.0	15
69	Electronic Detection of Drechslera sp. Fungi in Charentais Melon (Cucumis melo Naudin) Using Carbon-Nanostructure-Based Sensors. Journal of Agricultural and Food Chemistry, 2012, 60, 10420-10425.	2.4	9
70	Chemometrics in Food Technology. , 2012, , .		14
71	Olive Oil Traceability., 0,,.		6
72	Use of electronic nose and GC-MS in detection and monitoring some VOC. Atmospheric Environment, 2012, 51, 278-285.	1.9	87
73	Theoretical and practical considerations for teaching diagnostic electronic-nose technologies to clinical laboratory technicians. Procedia, Social and Behavioral Sciences, 2012, 31, 262-274.	0.5	5
74	Influence of MOS Gas-Sensor Production Tolerances on Pattern Recognition Techniques in Electronic Noses. IEEE Transactions on Instrumentation and Measurement, 2012, 61, 276-283.	2.4	26
75	Gas sensing using polymer-functionalized deformable Fabry–Perot interferometers. Sensors and Actuators B: Chemical, 2013, 182, 45-52.	4.0	38
77	Nanostructured tungsten oxide gas sensors prepared by electric field assisted aerosol assisted chemical vapour deposition. Journal of Materials Chemistry A, 2013, 1, 1827-1833.	5.2	43

#	Article	IF	CITATIONS
78	Engineering approaches for the improvement of conductometric gas sensor parameters. Sensors and Actuators B: Chemical, 2013, 188, 709-728.	4.0	193
79	Measuring odours in the environment vs. dispersion modelling: A review. Atmospheric Environment, 2013, 79, 731-743.	1.9	158
80	Rapid prototyping of carbon-based chemiresistive gas sensors on paper. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E3265-70.	3.3	137
82	Detection of Off-Flavor in Catfish Using a Conducting Polymer Electronic-Nose Technology. Sensors, 2013, 13, 15968-15984.	2.1	38
83	Time Horizon Selection Using Feature Feedback for the Implementation of an E-Nose System. IEEE Sensors Journal, 2013, 13, 1575-1581.	2.4	3
84	Within-day and between-day repeatability of measurements with an electronic nose in patients with COPD. Journal of Breath Research, 2013, 7, 017103.	1.5	75
85	Metal oxide semiconductor gas sensors in environmental monitoring., 2013,, 433-466.		38
86	Instrumental assessment of the sensory quality of juices. , 2013, , 565-610e.		5
87	Tristimulus mathematical treatment application for monitoring fungi infestation evolution in melon using the electrical response of carbon nanostructure-polymer composite based sensors. Sensors and Actuators B: Chemical, 2013, 188, 378-384.	4.0	7
88	Technical note: Evaluation of odor from vaginal discharge of cows in the first 10 days after calving by olfactory cognition and an electronic device. Journal of Dairy Science, 2013, 96, 5773-5779.	1.4	10
89	Differentiation of Complex Vapor Mixtures Using Versatile DNA–Carbon Nanotube Chemical Sensor Arrays. ACS Nano, 2013, 7, 2800-2807.	7.3	71
90	Fast Classification of Meat Spoilage Markers Using Nanostructured ZnO Thin Films and Unsupervised Feature Learning. Sensors, 2013, 13, 1578-1592.	2.1	35
91	Sensors for Exhaled Gas Analysis: An Analytical Review. , 2013, , 264-300.		5
92	Diverse Applications of Electronic-Nose Technologies in Agriculture and Forestry. Sensors, 2013, 13, 2295-2348.	2.1	266
93	Exhaled breath analysis by electronic nose in airways disease. Established issues and key questions. Clinical and Experimental Allergy, 2013, 43, 705-715.	1.4	120
94	Algorithmic mitigation of sensor failure: Is sensor replacement really necessary?. Sensors and Actuators B: Chemical, 2013, 183, 211-221.	4.0	59
95	Forced Assembly of Waterâ€Dispersible Carbon Nanotubes Trapped in Paper for Cheap Gas Sensors. Small, 2013, 9, 3759-3764.	5.2	29
96	Odour sampling system with modifiable parameters applied to fruit classification. Journal of Food Engineering, 2013, 116, 277-285.	2.7	19

#	Article	IF	Citations
97	The Electronic Nose in Respiratory Medicine. Respiration, 2013, 85, 72-84.	1.2	151
98	Development and application of electronic nose for agricultural robot., 2013,,.		9
99	Multilayer Perceptron Classification of Unknown Volatile Chemicals from the Firing Rates of Insect Olfactory Sensory Neurons and Its Application to Biosensor Design. Neural Computation, 2013, 25, 259-287.	1.3	21
100	Comparative analysis of two species of Asari Radix et Rhizoma by electronic nose, headspace GC–MS and chemometrics. Journal of Pharmaceutical and Biomedical Analysis, 2013, 85, 231-238.	1.4	34
101	Analysis of aroma compounds of commercial cider vinegars with different acidities using SPME/GC-MS, electronic nose, and sensory evaluation. Food Science and Biotechnology, 2013, 22, 1559-1565.	1.2	29
102	IIUM-fabricated portable electronic nose for halal authentication in beverages., 2013,,.		6
103	Instrumental assessment of the sensory quality of beer. , 2013, , 547-564.		1
104	Detecting cooking state with gas sensors during dry cooking. , 2013, , .		6
105	Towards a Chemiresistive Sensor-Integrated Electronic Nose: A Review. Sensors, 2013, 13, 14214-14247.	2.1	173
106	Bacteria Classification Using Electronic Nose for Diabetic Wound Monitoring. Applied Mechanics and Materials, 0, 339, 167-172.	0.2	5
107	Odor Sampling: Techniques and Strategies for the Estimation of Odor Emission Rates from Different Source Types. Sensors, 2013, 13, 938-955.	2.1	56
108	Potential Application of Electronic Olfaction Systems in Feedstuffs Analysis and Animal Nutrition. Sensors, 2013, 13, 14611-14632.	2.1	13
109	Discrimination Method of the Volatiles from Fresh Mushrooms by an Electronic Nose Using a Trapping System and Statistical Standardization to Reduce Sensor Value Variation. Sensors, 2013, 13, 15532-15548.	2.1	20
110	HKUSTâ€1 coated piezoresistive microcantilever array for volatile organic compound sensing. Micro and Nano Letters, 2013, 8, 766-769.	0.6	32
111	Obtaining Highly Selective Responses from a Bulk Tin Oxide Gas Sensor. Key Engineering Materials, 0, 543, 239-242.	0.4	2
112	Gas chromatography-olfactometry (GC-O), electronic noses (e-noses) and electronic tongues (e-tongues) for in vivo food flavour measurement., 2013,, 195-229.		19
113	Application of artificial neural networks on mosquito Olfactory Receptor Neurons for an olfactory biosensor., 2013, 2013, 5390-3.		5
114	Analysis of dynamic response of plasma polymer film-coated quartz crystal resonator sensor. International Journal of Applied Electromagnetics and Mechanics, 2013, 41, 39-49.	0.3	3

#	Article	IF	CITATIONS
115	Threshold detection of carcinogenic odor of formaldehyde with wireless electronic nose. , 2014, , .		4
116	Sensing Technology: Current Status and Future Trends II. Smart Sensors, Measurement and Instrumentation, 2014, , .	0.4	3
117	Odor Emissions. , 2014, , .		0
118	Implementing a multisensory robotic platform for building collaborative monitored robots. , 2014, , .		O
119	A Discriminant Distance Based Composite Vector Selection Method for Odor Classification. Sensors, 2014, 14, 6938-6951.	2.1	8
120	Electronic Noses for Environmental Monitoring Applications. Sensors, 2014, 14, 19979-20007.	2.1	172
121	Gas identification in electronic nose by using similarity measure between latency patterns. , 2014, , .		1
122	Pressure-driven fast reaction and recovery of peptide receptor for an electronic nose application. Applied Physics Letters, 2014, 104, 083704.	1.5	1
123	Quantifying Electronic and Ionic Conductivity Contributions in Carbon/Polyelectrolyte Composite Thin Films. Journal of the Electrochemical Society, 2014, 161, H917-H923.	1.3	18
124	A signal acquisition and processing chip with built-in cluster for chemiresistive gas sensor array. , 2014, , .		1
125	Electronic Nose and Its Application to Microbiological Food Spoilage Screening. Smart Sensors, Measurement and Instrumentation, 2014, , 119-140.	0.4	4
126	Differential Electronic Nose in On-Line Dynamic Measurements. Metrology and Measurement Systems, 2014, 21, 649-662.	1.4	7
127	A configurable smart e-nose for spatio-temporal olfactory analysis. , 2014, , .		11
128	Effects of kimchi and smoking on quality characteristics and shelf life of cooked sausages prepared with irradiated pork. Meat Science, 2014, 96, 548-553.	2.7	29
129	Monitorization of Atlantic salmon (Salmo salar) spoilage using an optoelectronic nose. Sensors and Actuators B: Chemical, 2014, 195, 478-485.	4.0	34
130	Physicoâ€chemical properties and fatty acid profile of seed oils from pomegranate (<i>Punica) Tj ETQq1 1 0.7843</i>	314 rgBT / 1.0	Overlock 10° 82
131	Advances in artificial olfaction: Sensors and applications. Talanta, 2014, 124, 95-105.	2.9	106
132	Ion Jelly: a novel sensing material for gas sensors and electronic noses. Journal of Materials Chemistry C, 2014, 2, 696-700.	2.7	28

#	Article	IF	CITATIONS
133	Evaluation of chicken freshness using a low-cost colorimetric sensor array with AdaBoost–OLDA classification algorithm. LWT - Food Science and Technology, 2014, 57, 502-507.	2.5	70
134	Intrinsic and Ionic Conduction in Humidity-Sensitive Sulfonated Polyaniline. Electrochimica Acta, 2014, 127, 106-114.	2.6	21
135	Recent sensing technologies for pathogen detection in milk: A review. Biosensors and Bioelectronics, 2014, 60, 8-21.	5. 3	79
136	Analysis of Airborne Biomarkers for Point-of-Care Diagnostics. Journal of the Association for Laboratory Automation, 2014, 19, 225-247.	2.8	15
137	New composite porphyrin-conductive polymer gas sensors for application in electronic noses. Sensors and Actuators B: Chemical, 2014, 193, 136-141.	4.0	46
138	Metabolomics: a potential powerful ally in the fight against cancer. Colorectal Disease, 2014, 16, 235-238.	0.7	2
139	Food Analysis Using Artificial Senses. Journal of Agricultural and Food Chemistry, 2014, 62, 1423-1448.	2.4	219
140	Review of recent trends in gas sensing technologies and their miniaturization potential. Sensor Review, 2014, 34, 24-35.	1.0	66
141	Designing breathalyser technology for the developing world: how a single breath can fight the double disease burden. Journal of Medical Engineering and Technology, 2014, 38, 156-163.	0.8	13
142	Quantitative recognition of volatile organics by fuzzy inference system based on discrete wavelet transform of SAW sensor transients. , 2014, , .		0
143	Coupling gas chromatography and electronic nose detection for detailed cigarette smoke aroma characterization. Journal of Chromatography A, 2014, 1365, 191-203.	1.8	12
144	Nature's Chemical Signatures in Human Olfaction: A Foodborne Perspective for Future Biotechnology. Angewandte Chemie - International Edition, 2014, 53, 7124-7143.	7.2	409
145	Pattern-based sensing of aminoglycosides with fluorescent amphiphiles. Chemical Science, 2014, 5, 2456-2460.	3.7	33
146	Ethylene control in cut flowers: Classical and innovative approaches. Postharvest Biology and Technology, 2014, 97, 83-92.	2.9	61
148	Pyridinium <i>N</i> -Phenolate Betaine Dyes. Chemical Reviews, 2014, 114, 10429-10475.	23.0	244
149	Detection of Prostate Cancer by an Electronic Nose: A Proof of Principle Study. Journal of Urology, 2014, 192, 230-235.	0.2	72
150	The Electronic Nose: Artificial Olfaction Technology. Biological and Medical Physics Series, 2014, , .	0.3	31
151	Volatile Organic Compounds in Indoor Environments. Handbook of Environmental Chemistry, 2014, , 69-107.	0.2	10

#	Article	IF	CITATIONS
152	Detecting cancer by breath volatile organic compound analysis: a review of array-based sensors. Journal of Breath Research, 2014, 8, 027112.	1.5	98
153	Efficacy of natural antimicrobials to prolong the shelf-life of minimally processed apples packaged in modified atmosphere. Food Control, 2014, 46, 403-411.	2.8	56
154	Three-dimensional chemical sensors based on rolled-up hybrid nanomembranes. RSC Advances, 2014, 4, 9723.	1.7	31
155	Pen-Writing Polypyrrole Arrays on Paper for Versatile Cheap Sensors. ACS Macro Letters, 2014, 3, 86-90.	2.3	78
156	Synthesis and spectral characterization of new homologous 1,3,5-triaryl-2-pyrazolines: Influence of alkyloxy chain length on fluorescence. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 133, 182-189.	2.0	19
157	Flavour Analysis of Stirred Yoghurt with Cheddar Cheese Adding into Milk. Food Science and Technology Research, 2014, 20, 939-946.	0.3	11
158	Quality evaluation of agricultural distillates using different types of electronic noses. Proceedings of SPIE, $2014, \ldots$	0.8	0
159	Comparison of different types of electronic nose instruments for evaluation of odour nuisance from landfill. Proceedings of SPIE, 2014, , .	0.8	0
160	A model for discrimination freshness of shrimp. Sensing and Bio-Sensing Research, 2015, 6, 28-32.	2.2	19
161	Electronic noses: Forestalling fire disasters: A technique to prevent false fire alarms and fatal casualties., 2015,,.		9
162	Analysis of volatile organic compounds in exhaled breath to diagnose ventilator-associated pneumonia. Scientific Reports, 2015, 5, 17179.	1.6	127
163	Food and Beverages Fortified with Phytonutrients. Nutraceuticals, 2015, , 173-238.	0.0	0
164	First Fifty Years of Chemoresistive Gas Sensors. Chemosensors, 2015, 3, 1-20.	1.8	392
165	A Review of Patterned Organic Bioelectronic Materials and their Biomedical Applications. Advanced Materials, 2015, 27, 7583-7619.	11.1	67
166	Determination of authenticity of brand perfume using electronic nose prototypes. Measurement Science and Technology, 2015, 26, 125103.	1.4	33
167	Review article: breath analysis in inflammatory bowel diseases. Alimentary Pharmacology and Therapeutics, 2015, 41, 329-341.	1.9	50
168	CVD Deposited Titania Thin Films for Gas Sensors with Improved Operating Characteristics. Chemical Vapor Deposition, 2015, 21, 327-333.	1.4	18
169	The Possibility of Building Classification for Mould Threat Using Gas Sensors Array. Advanced Materials Research, 2015, 1126, 161-168.	0.3	1

#	Article	IF	CITATIONS
170	Optimum Harvest Time of Cucumis africanus Fruit Using Concentration of Cucurbitacin B as a Maturity Standard. Journal of Agricultural Science, 2015, 7 , .	0.1	1
171	Early Detection of Lung Cancer Using Nano-Nose - A Review. Open Biomedical Engineering Journal, 2015, 9, 228-233.	0.7	27
172	Probabilistic Rank Score Coding: A Robust Rank-Order Based Classifier for Electronic Nose Applications. IEEE Sensors Journal, 2015, 15, 3934-3946.	2.4	18
173	Paper as a Platform for Sensing Applications and Other Devices: A Review. ACS Applied Materials & Samp; Interfaces, 2015, 7, 8345-8362.	4.0	269
174	In-vitro diagnosis of single and poly microbial species targeted for diabetic foot infection using e-nose technology. BMC Bioinformatics, 2015, 16, 158.	1.2	32
175	Advances in Electronic-Nose Technologies for the Detection of Volatile Biomarker Metabolites in the Human Breath. Metabolites, 2015, 5, 140-163.	1.3	190
176	Investigation of adsorption-desorption phenomenon by using current fluctuations of amperometric NO <inf>2</inf> gas sensor. , 2015, , .		0
177	An "electronic nose―as a potential device for fire detection of forest product fire loads in enclosures. Wood Material Science and Engineering, 2015, 10, 130-144.	1.1	8
178	Novel SH-SAW gas sensor based on graphene. , 2015, , .		0
179	Polymer coated film bulk acoustic resonator (FBAR) arrays for Indoor Air Quality (IAQ) monitoring. , 2015, , .		4
180	Comparison of classification methods in breath analysis by electronic nose. Journal of Breath Research, 2015, 9, 046002.	1.5	68
181	Quality Control of Orange Juice Using Electronic Nose. Advanced Materials Research, 2015, 1131, 242-245.	0.3	0
182	Odor assessment of automobile interior components using ion mobility spectrometry., 2015,,.		0
183	Gas identification with spike codes in wireless electronic nose: A potential application for smart green buildings. , 2015, , .		6
184	High performance NEMS devices for sensing applications. , 2015, , .		0
185	Using Multilayer Perceptron Computation to Discover Ideal Insect Olfactory Receptor Combinations in the Mosquito and Fruit Fly for an Efficient Electronic Nose. Neural Computation, 2015, 27, 171-201.	1.3	7
186	Geoherbalism evaluation of Radix Angelica sinensis based on electronic nose. Journal of Pharmaceutical and Biomedical Analysis, 2015, 105, 101-106.	1.4	37
187	The correlation of odors in the environment with ion mobility spectra patterns. International Journal for Ion Mobility Spectrometry, 2015, 18, 1-7.	1.4	6

#	Article	IF	CITATIONS
188	Zinc oxide nanowire gas sensors: Fabrication, functionalisation and devices. Materials Science and Technology, 2015, 31, 1681-1697.	0.8	40
189	Quantitative fluctuation-enhanced sensing in amperometric NO2 sensors. Chemical Physics, 2015, 456, 111-117.	0.9	15
190	Breath and Air Analysis: Applications in Resource-poor Settings. Procedia Engineering, 2015, 107, 215-222.	1.2	1
191	Optimal selection of SAW sensors for E-Nose applications. Sensors and Actuators B: Chemical, 2015, 219, 238-244.	4.0	23
192	Functionalized polythiophenes: Recognition materials for chemosensors and biosensors of superior sensitivity, selectivity, and detectability. Progress in Polymer Science, 2015, 47, 1-25.	11.8	118
193	Enhanced Radio Frequency Biosensor for Food Quality Detection Using Functionalized Carbon Nanofillers. ACS Applied Materials & Samp; Interfaces, 2015, 7, 11939-11947.	4.0	25
194	Pseudo Optimization of E-Nose Data Using Region Selection with Feature Feedback Based on Regularized Linear Discriminant Analysis. Sensors, 2015, 15, 656-671.	2.1	1
195	Electronic-Nose Applications for Fruit Identification, Ripeness and Quality Grading. Sensors, 2015, 15, 899-931.	2.1	217
196	Electronic Nose as an NDT Tool for Aerospace Industry. Physics Procedia, 2015, 62, 23-28.	1.2	5
197	Natural antimicrobials to prolong the shelf-life of minimally processed lamb's lettuce. Postharvest Biology and Technology, 2015, 103, 35-44.	2.9	39
198	The possibility of inventing new technologies in the detection of cancer by applying elements of the canine olfactory apparatus. Medical Hypotheses, 2015, 85, 160-172.	0.8	18
199	A colorimetric sensor array for detection and discrimination of biothiols based on aggregation of gold nanoparticles. Analytica Chimica Acta, 2015, 882, 58-67.	2.6	114
200	Structure-fluorescence relationship: interplay of non-covalent interactions in homologous 1,3,5-triaryl-2-pyrazolines. New Journal of Chemistry, 2015, 39, 4359-4367.	1.4	22
201	Fault tolerant architecture for artificial olfactory system. Measurement Science and Technology, 2015, 26, 055101.	1.4	1
203	The effect of sensor temperature and MOx layer thickness on the sensitivity of SnO ₂ - and WO ₃ -based chemiresistive sensors to ethylene gas. Proceedings of SPIE, 2015, , .	0.8	2
204	Biomimetic sensor design. Nanoscale, 2015, 7, 18379-18391.	2.8	25
205	Discrimination between washed <i>Arabica</i> , natural <i>Arabica</i> and <i>Robusta</i> coffees by using near infrared spectroscopy, electronic nose and electronic tongue analysis. Journal of the Science of Food and Agriculture, 2015, 95, 2192-2200.	1.7	71
206	Discrimination and characterization of different intensities of goaty flavor in goat milk by means of an electronic nose. Journal of Dairy Science, 2015, 98, 55-67.	1.4	38

#	Article	IF	CITATIONS
207	A fast-response/recovery ZnO hierarchical nanostructure based gas sensor with ultra-high room-temperature output response. Sensors and Actuators B: Chemical, 2015, 206, 764-771.	4.0	82
208	Alcohol Vapor Sensor Based on Fluorescent Dye-Doped Optical Waveguides. IEEE Sensors Journal, 2015, 15, 76-81.	2.4	20
209	uSmell: exploring the potential for gas sensors to classify odors in ubicomp applications relative to airflow and distance. Personal and Ubiquitous Computing, 2015, 19, 189-202.	1.9	5
210	Recent progress in the design and clinical development of electronic-nose technologies. Nanobiosensors in Disease Diagnosis, 0, , 15.	0.0	39
211	Fungi Active Microbial Metabolism Detection of Rhizopus sp. and Aspergillus sp. Section Nigri on Strawberry Using a Set of Chemical Sensors Based on Carbon Nanostructures. Chemosensors, 2016, 4, 19.	1.8	10
212	Electronic Nose in Dairy Products. , 2016, , 21-30.		8
213	Gas Classification Using Combined Features Based on a Discriminant Analysis for an Electronic Nose. Journal of Sensors, 2016, 2016, 1-9.	0.6	9
214	Effect of a New Natural Seasoning on the Formation of Pyrazines in Barbecued Beef Patties. Journal of Chemistry, 2016, 2016, 1-7.	0.9	18
215	From Data Acquisition to Data Fusion: A Comprehensive Review and a Roadmap for the Identification of Activities of Daily Living Using Mobile Devices. Sensors, 2016, 16, 184.	2.1	123
216	Enhancing Electronic Nose Performance Based on a Novel QPSO-KELM Model. Sensors, 2016, 16, 520.	2.1	22
217	Evaluating Soil Moisture Status Using an e-Nose. Sensors, 2016, 16, 886.	2.1	32
218	Love Acoustic Wave-Based Devices and Molecularly-Imprinted Polymers as Versatile Sensors for Electronic Nose or Tongue for Cancer Monitoring. Sensors, 2016, 16, 915.	2.1	25
219	Chocolate Classification by an Electronic Nose with Pressure Controlled Generated Stimulation. Sensors, 2016, 16, 1745.	2.1	18
220	Effects of Sampling Conditions and Environmental Factors on Fecal Volatile Organic Compound Analysis by an Electronic Nose Device. Sensors, 2016, 16, 1967.	2.1	27
221	Classification of E-Nose Aroma Data of Four Fruit Types by ABC-Based Neural Network. Sensors, 2016, 16, 304.	2.1	53
222	Electronic Nose Testing Procedure for the Definition of Minimum Performance Requirements for Environmental Odor Monitoring. Sensors, 2016, 16, 1548.	2.1	39
224	Data acquisition system with low-accuracy sensors. , 2016, , .		0
225	Chemical Sniffing Instrumentation for Security Applications. Chemical Reviews, 2016, 116, 8146-8172.	23.0	151

#	Article	IF	CITATIONS
226	E-botanist system for agricultural applications. , 2016, , .		0
227	Challenges to embed an electronic nose on a mobile robot. , 2016, , .		7
229	Nanoparticles to Sense Food Quality. Sustainable Agriculture Reviews, 2016, , 145-181.	0.6	2
230	Study on electronic nose and algorithm for identification of spice. , 2016, , .		1
231	Assessment of seed quality using non-destructive measurement techniques: a review. Seed Science Research, 2016, 26, 285-305.	0.8	114
232	Application of Organic AcidÂBased Artificial Neural Network Modeling for Assessment of Commercial Vinegar Authenticity. Food Analytical Methods, 2016, 9, 3451-3459.	1.3	9
233	Artificial olfactory system with fault-tolerant sensor array. ISA Transactions, 2016, 63, 425-435.	3.1	5
234	Electrical, electrochemical, and thermometric sensors for the detection of explosives. Journal of Analytical Chemistry, 2016, 71, 234-242.	0.4	10
235	In situ characterization of natural pyrite bioleaching using electrochemical noise technique. International Journal of Minerals, Metallurgy and Materials, 2016, 23, 117-126.	2.4	4
237	Advance Detection Techniques of Phytopathogenic Fungi: Current Trends and Future Perspectives. Fungal Biology, 2016, , 265-298.	0.3	9
238	Correlation of sensory analysis with a virtual sensor array data for odour diagnosis of fragrant fabrics. Measurement: Journal of the International Measurement Confederation, 2016, 90, 396-403.	2.5	15
239	Carbon Nanotube Based Gas Sensors toward Breath Analysis. ChemPlusChem, 2016, 81, 1248-1265.	1.3	70
241	Electronic nose sensor drift compensation based on deep belief network. , 2016, , .		9
242	<i>In vitro $\langle l \rangle$ volatile organic compound profiling using GC×GC-TOFMS to differentiate bacteria associated with lung infections: a proof-of-concept study. Journal of Breath Research, 2016, 10, 026008.</i>	1.5	57
243	Design of temperature and humidity sensors for an electronic nose used in rotten food., 2016,,.		11
244	Comparison of the measurement techniques employed for evaluation of ambient air odor quality. Proceedings of SPIE, 2016, , .	0.8	0
245	Monitoring of odor nuisance in the tri-city agglomeration. , 2016, , .		0
247	Wireless Hazard Badges to Detect Nerveâ€Agent Simulants. Angewandte Chemie, 2016, 128, 9814-9818.	1.6	8

#	Article	IF	CITATIONS
248	Wireless Hazard Badges to Detect Nerveâ€Agent Simulants. Angewandte Chemie - International Edition, 2016, 55, 9662-9666.	7.2	68
249	Application of Chemical Sensors and Sensor Matrixes to Air Quality Evaluation. Comprehensive Analytical Chemistry, 2016, , 267-294.	0.7	6
250	A convenient approach to producing a sensitive MWCNT-based paper sensor. RSC Advances, 2016, 6, 112241-112245.	1.7	12
251	A New Method Combining KECA-LDA With ELM for Classification of Chinese Liquors Using Electronic Nose. IEEE Sensors Journal, 2016, 16, 8010-8017.	2.4	28
252	Electronic noses and tongues to assess food authenticity and adulteration. Trends in Food Science and Technology, 2016, 58, 40-54.	7.8	196
253	Application of ionic liquids in electronic nose instruments. , 2016, , 339-360.		2
255	Polyoxometalates as solution-phase electrocatalytic mediators for reduced electrode fouling and the improved oxidative response of phenols. Electrochemistry Communications, 2016, 69, 32-35.	2.3	6
256	Using Field Asymmetric Ion Mobility Spectrometry for Odor Assessment of Automobile Interior Components. IEEE Sensors Journal, 2016, 16, 5747-5756.	2.4	14
257	Sample handling for electronic nose technology: State of the art and future trends. TrAC - Trends in Analytical Chemistry, 2016, 82, 222-236.	5.8	54
258	Electrochemical measurements on a droplet using gold microelectrodes. IOP Conference Series: Materials Science and Engineering, 2016, 108, 012042.	0.3	0
259	Biologically Inspired Feature Rank Codes for Hardware Friendly Gas Identification With the Array of Gas Sensors. IEEE Sensors Journal, 2016, 16, 5776-5784.	2.4	22
260	Exhaled Breath Analysis in Heart Failure. Current Heart Failure Reports, 2016, 13, 166-171.	1.3	24
261	Flexible and robust hybrid paper with a large piezoelectric coefficient. Journal of Materials Chemistry C, 2016, 4, 1448-1453.	2.7	7
262	Application of electronic nose systems for assessing quality of medicinal and aromatic plant products: A review. Journal of Applied Research on Medicinal and Aromatic Plants, 2016, 3, 1-9.	0.9	107
263	Application of electrochemical sensors and sensor matrixes for measurement of odorous chemical compounds. TrAC - Trends in Analytical Chemistry, 2016, 77, 1-13.	5.8	90
264	Differentiation of two types of pu-erh teas by using an electronic nose and ultrasound-assisted extraction-dispersive liquid–liquid microextraction-gas chromatography-mass spectrometry. Analytical Methods, 2016, 8, 593-604.	1.3	23
265	Tea Quality Prediction by Autoregressive Modeling of Electronic Tongue Signals. IEEE Sensors Journal, 2016, 16, 4470-4477.	2.4	19
266	Estimation of multicomponent organic solvent vapor mixture composition with electroconducting polymer chemiresistors. Sensors and Actuators B: Chemical, 2016, 232, 203-218.	4.0	13

#	Article	IF	CITATIONS
267	Measurement techniques for assessing the olfactory impact of municipal sewage treatment plants. Environmental Monitoring and Assessment, 2016, 188, 32.	1.3	48
268	Robust Bayesian Inference for Gas Identification in Electronic Nose Applications by Using Random Matrix Theory. IEEE Sensors Journal, 2016, 16, 2036-2045.	2.4	26
269	Low-cost gas sensors with polyaniline film for aroma detection. Journal of Food Engineering, 2016, 180, 16-21.	2.7	29
270	A novel method for qualitative analysis of edible oil oxidation using an electronic nose. Food Chemistry, 2016, 202, 229-235.	4.2	148
271	Detection and quantification of composite surface contaminants with an e-nose for fast and reliable pre-bond quality assessment of aircraft components. Sensors and Actuators B: Chemical, 2016, 222, 1264-1273.	4.0	7
272	Data mining derived from food analyses using non-invasive/non-destructive analytical techniques; determination of food authenticity, quality & Description in tandem with computer science disciplines. Trends in Food Science and Technology, 2016, 50, 11-25.	7.8	134
273	Bioelectronic tongues: New trends and applications in water and food analysis. Biosensors and Bioelectronics, 2016, 79, 608-626.	5.3	91
274	Fusion of artificial senses as a robust approach to food quality assessment. Journal of Food Engineering, 2016, 171, 230-239.	2.7	74
275	Recent developments in smart freezing technology applied to fresh foods. Critical Reviews in Food Science and Nutrition, 2017, 57, 2835-2843.	5.4	20
276	Digital technologies and artificial intelligence's present and foreseeable impact on lawyering, judging, policing and law enforcement. Al and Society, 2017, 32, 441-464.	3.1	38
277	Versatile approaches to tune a nanocolumnar structure for optimized electrical properties of In2O3 based gas sensor. Sensors and Actuators B: Chemical, 2017, 248, 894-901.	4.0	23
278	Metabolomics for empirical delineation of the traditional Korean fermented foods and beverages. Trends in Food Science and Technology, 2017, 61, 103-115.	7.8	46
279	Eâ€Beam Irradiation for Improving the Microbiological Quality of Smoked Duck Meat with Minimum Effects on Physicochemical Properties During Storage. Journal of Food Science, 2017, 82, 865-872.	1.5	22
280	Nanosensors for food quality and safety assessment. Environmental Chemistry Letters, 2017, 15, 165-177.	8.3	7 3
281	Fuzzy Subtractive Clustering for Polymer Data Mining for SAW Sensor Array Based Electronic Nose. Advances in Intelligent Systems and Computing, 2017, , 245-253.	0.5	4
282	Machine Olfaction., 2017,, 55-56.		4
283	Application of electronic nose with MOS sensors to prediction of rapeseed quality. Measurement: Journal of the International Measurement Confederation, 2017, 103, 227-234.	2.5	73
284	Material Odor Emissions and Indoor Air Quality. , 2017, , 65-66.		2

#	Article	IF	Citations
285	Volatile compounds in hilsa (<i>Tenualosa ilisha</i> , Hamilton) as detected by static headspace gas chromatography and mass spectrometry. Journal of Food Processing and Preservation, 2017, 41, e13212.	0.9	11
286	Fusion of electronic nose, electronic tongue and computer vision for animal source food authentication and quality assessment – A review. Journal of Food Engineering, 2017, 210, 62-75.	2.7	230
287	Novel method for the producing area identification of Zhongning Goji berries by electronic nose. Food Chemistry, 2017, 221, 1113-1119.	4.2	63
288	Autonomous electromechanical system for gas leaks odor detection. , 2017, , .		0
289	Volatile Organic Compounds in the Breath of Oral Squamous Cell Carcinoma Patients: A Pilot Study. Otolaryngology - Head and Neck Surgery, 2017, 157, 981-987.	1.1	23
290	NDSRT: An Efficient Virtual Multi-Sensor Response Transformation for Classification of Gases/Odors. IEEE Sensors Journal, 2017, 17, 3416-3421.	2.4	22
291	Computationally Efficient Weighted Binary Decision Codes for Gas Identification With Array of Gas Sensors. IEEE Sensors Journal, 2017, 17, 487-497.	2.4	10
292	Electronic Nose as a Tool for Monitoring the Authenticity of Food. A Review. Food Analytical Methods, 2017, 10, 1800-1816.	1.3	136
293	Breath based volatile organic compounds in the detection of breast, lung, and colorectal cancers: A systematic review. Cancer Biomarkers, 2017, 21, 29-39.	0.8	52
294	A framework for analysing E-Nose data based on fuzzy set multiple linear regression: Paddy quality assessment. Sensors and Actuators A: Physical, 2017, 267, 200-209.	2.0	30
295	The application of the statistical classifying models for signal evaluation of the gas sensors analyzing mold contamination of the building materials. AIP Conference Proceedings, 2017, , .	0.3	3
296	Varietyâ€based discrimination of apple juices by an electronic nose and gas chromatography–mass spectrometry. International Journal of Food Science and Technology, 2017, 52, 2324-2333.	1.3	16
297	Preparation and properties of sodium bicarbonateâ€incorporated LDPE films with deodorizing function for kimchi packaging. Packaging Technology and Science, 2017, 30, 781-790.	1.3	5
298	Development of a novel multiplexed optoelectronic nose for analysis of volatile organic compounds. , 2017, , .		3
299	FAIMS based sensing of Burkholderia cepacia caused sour skin in onions under bulk storage condition. Journal of Food Measurement and Characterization, 2017, 11, 1578-1585.	1.6	11
300	Electronic nose system based on polyaniline films sensor array with different dopants for discrimination of artificial aromas. Innovative Food Science and Emerging Technologies, 2017, 43, 112-116.	2.7	35
301	The vulnerability of human sensory evaluation and the promising senses instrumentation. British Food Journal, 2017, 119, 2145-2160.	1.6	8
302	Pattern recognition for predictive, preventive, and personalized medicine in cancer. EPMA Journal, 2017, 8, 51-60.	3.3	119

#	Article	IF	CITATIONS
303	Olfaction as a soldier- a review of the physiology and its present and future use in the military. Military Medical Research, 2017, 4, 9.	1.9	11
304	Data Reconstruction Using Subspace Analysis for Gas Classification. IEEE Sensors Journal, 2017, 17, 5954-5962.	2.4	10
305	Fingerprinting outdoor air environment using microbial volatile organic compounds (MVOCs) – A review. TrAC - Trends in Analytical Chemistry, 2017, 86, 75-83.	5.8	45
306	Bioelectronic nose: Current status and perspectives. Biosensors and Bioelectronics, 2017, 87, 480-494.	5.3	127
307	Chemically modified nanocrystalline SnO2-based materials for nitrogen-containing gases detection using gas sensor array. Journal of Alloys and Compounds, 2017, 691, 514-523.	2.8	27
308	Europe and MENA Cooperation Advances in Information and Communication Technologies. Advances in Intelligent Systems and Computing, 2017, , .	0.5	10
309	Influence of PDO Ragusano cheese biofilm microbiota on flavour compounds formation. Food Microbiology, 2017, 61, 126-135.	2.1	37
311	Feasibility of electronic nose technology for discriminating between head and neck, bladder, and colon carcinomas. European Archives of Oto-Rhino-Laryngology, 2017, 274, 1053-1060.	0.8	48
312	Fungal disease detection in plants: Traditional assays, novel diagnostic techniques and biosensors. Biosensors and Bioelectronics, 2017, 87, 708-723.	5.3	151
313	Indoor localisation using aroma fingerprints: A first sniff. , 2017, , .		4
314	Innovative educational course II: Modelling of odour dispersion from agricultural biogas plants. Chemistry, Didactics, Ecology, Metrology, 2017, 22, 135-150.	0.1	0
315	Developing diabetes ketoacidosis prediction using ANFIS model. , 2017, , .		4
316	Potential Applications and Limitations of Electronic Nose Devices for Plant Disease Diagnosis. Sensors, 2017, 17, 2596.	2.1	76
317	Recent Progress toward Microfluidic Quality Control Testing of Radiopharmaceuticals. Micromachines, 2017, 8, 337.	1.4	35
318	Optical Gas Sensing of Ammonia and Amines Based on Protonated Porphyrin/TiO2 Composite Thin Films. Sensors, 2017, 17, 24.	2.1	40
319	Odor-Sensing System to Support Social Participation of People Suffering from Incontinence. Sensors, 2017, 17, 58.	2.1	12
320	Identification of Chinese Herbal Medicines with Electronic Nose Technology: Applications and Challenges. Sensors, 2017, 17, 1073.	2.1	33
321	Review of Portable and Low-Cost Sensors for the Ambient Air Monitoring of Benzene and Other Volatile Organic Compounds. Sensors, 2017, 17, 1520.	2.1	287

#	ARTICLE	IF	CITATIONS
322	Array of Chemosensitive Resistors with Composites of Gas Chromatography (GC) Materials and Carbon Black for Detection and Recognition of VOCs: A Basic Study. Sensors, 2017, 17, 1606.	2.1	10
323	Development of the MOOSY4 eNose IoT for Sulphur-Based VOC Water Pollution Detection. Sensors, 2017, 17, 1917.	2.1	14
324	Determination of Odour Interactions of Three-Component Gas Mixtures Using an Electronic Nose. Sensors, 2017, 17, 2380.	2.1	44
325	An Investigation into Spike-Based Neuromorphic Approaches for Artificial Olfactory Systems. Sensors, 2017, 17, 2591.	2.1	27
326	Different Ways to Apply a Measurement Instrument of E-Nose Type to Evaluate Ambient Air Quality with Respect to Odour Nuisance in a Vicinity of Municipal Processing Plants. Sensors, 2017, 17, 2671.	2.1	49
327	Volatile Metabolites Emission by In Vivo Microalgae—An Overlooked Opportunity?. Metabolites, 2017, 7, 39.	1.3	61
328	Currently Commercially Available Chemical Sensors Employed for Detection of Volatile Organic Compounds in Outdoor and Indoor Air. Environments - MDPI, 2017, 4, 21.	1.5	179
329	Coactive application of environmental sensors for detection and assessment of spontaneous combustion in underground coal mines., 2017,,.		4
330	Orthogonal Signal Correction to Improve Stability Regression Model in Gas Sensor Systems. Journal of Sensors, 2017, 2017, 1-8.	0.6	26
331	Categorization of Chinese Dry-Cured Ham Based on Three Sticks' Method by Multiple Sensory Technologies. Journal of Food Quality, 2017, 2017, 1-6.	1.4	9
332	Volatile compounds profiles in unroasted Coffea arabica and Coffea canephora beans from different countries. Food Science and Technology, 2017, 37, 444-448.	0.8	18
333	Biomarker Metabolite Signatures Pave the Way for Electronic-nose Applications in Early Clinical Disease Diagnoses. Current Metabolomics, 2017, 5, .	0.5	11
334	Novel cutting-edge metabolite-based diagnostic tools for aspergillosis. PLoS Pathogens, 2017, 13, e1006486.	2.1	14
335	Electrospinning. , 2017, , 385-417.		1
336	Chemical modifications of Tonda Gentile Trilobata hazelnut and derived processing products under different infrared and hotâ€air roasting conditions: a combined analytical study. Journal of the Science of Food and Agriculture, 2018, 98, 4561-4569.	1.7	5
337	Recursive DBPSO for Computationally Efficient Electronic Nose System. IEEE Sensors Journal, 2018, 18, 320-327.	2.4	14
338	Site-Specific Growth and in Situ Integration of Different Nanowire Material Networks on a Single Chip: Toward a Nanowire-Based Electronic Nose for Gas Detection. ACS Sensors, 2018, 3, 727-734.	4.0	31
339	Research on electronic nose system based on continuous wide spectral gas sensing. Microchemical Journal, 2018, 140, 1-7.	2.3	12

#	Article	IF	CITATIONS
340	Optimizing information content in MOF sensor arrays for analyzing methane-air mixtures. Sensors and Actuators B: Chemical, 2018, 267, 483-493.	4.0	36
341	Evolution of clinical and environmental health applications of exhaled breath research: Review of methods and instrumentation for gas-phase, condensate, and aerosols. Analytica Chimica Acta, 2018, 1024, 18-38.	2.6	77
342	Electronic Nose-Based Odor Classification using Genetic Algorithms and Fuzzy Support Vector Machines. International Journal of Fuzzy Systems, 2018, 20, 1309-1320.	2.3	19
343	The survey of analytical methods for sample preparation and analysis of fragrances in cosmetics and personal care products. TrAC - Trends in Analytical Chemistry, 2018, 102, 41-59.	5.8	44
344	Determining degree of roasting in cocoa beans by artificial neural network (ANN)â€based electronic nose system and gas chromatography/mass spectrometry (GC/MS). Journal of the Science of Food and Agriculture, 2018, 98, 3851-3859.	1.7	46
345	Swarm Intelligence and Similarity Measures for Memory Efficient Electronic Nose System. IEEE Sensors Journal, 2018, 18, 2471-2482.	2.4	9
346	Odor Space Navigation Using Multisensory E-Nose. Automation and Remote Control, 2018, 79, 167-179.	0.4	2
347	Design and Construction of Electronic Nose for Multi-purpose Applications by Sensor Array Arrangement Using IBGSA. Journal of Intelligent and Robotic Systems: Theory and Applications, 2018, 92, 205-221.	2.0	13
348	Enhancing electronic nose performance based on a novel QPSO-RBM technique. Sensors and Actuators B: Chemical, 2018, 259, 241-249.	4.0	26
349	Discrimination of selected fungi species based on their odour profile using prototypes of electronic nose instruments. Measurement: Journal of the International Measurement Confederation, 2018, 116, 307-313.	2.5	39
350	Continuous wide spectrum odor sensing for electronic nose system. Sensor Review, 2018, 38, 223-230.	1.0	0
351	Nanosensors and nanobiosensors in food and agriculture. Environmental Chemistry Letters, 2018, 16, 161-182.	8.3	195
352	Analyses of odours from concentrated animal feeding operations: A review. Atmospheric Environment, 2018, 175, 100-108.	1.9	24
353	A modified mean deviation threshold function based on fast Fourier transform and its application in litchi rest storage life recognition using an electronic nose. Journal of Food Measurement and Characterization, 2018, 12, 867-876.	1.6	5
354	Evaluation of the Electrical Resistance Response of Insulating Glass Surface to Sense and Classify Humidity and VOCs Vapors. IEEE Sensors Journal, 2018, 18, 3940-3945.	2.4	2
355	Rapid detection of adulterated peony seed oil by electronic nose. Journal of Food Science and Technology, 2018, 55, 2152-2159.	1.4	31
356	Breathprinting and Early Diagnosis of Lung Cancer. Journal of Thoracic Oncology, 2018, 13, 883-894.	0.5	36
357	Efficient Solutions for Discreteness, Drift, and Disturbance (3D) in Electronic Olfaction. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2018, 48, 242-254.	5.9	39

#	Article	IF	Citations
358	Stochastic modeling of the transient regime of an electronic nose for waste cooking oil classification. Journal of Food Engineering, 2018, 221, 114-123.	2.7	9
359	Electronic tongue discrimination of four tomato cultivars harvested at six maturities and exposed to blanching and refrigeration treatments. Postharvest Biology and Technology, 2018, 136, 42-49.	2.9	35
360	Flexible poly(styrene-butadiene-styrene)/carbon nanotube fiber based vapor sensors with high sensitivity, wide detection range, and fast response. Sensors and Actuators B: Chemical, 2018, 256, 896-904.	4.0	43
361	Non-destructive sensing methods for quality assessment of on-tree fruits: a review. Journal of Food Measurement and Characterization, 2018, 12, 497-526.	1.6	30
362	A review on advances in application of polyaniline for ammonia detection. Sensors and Actuators B: Chemical, 2018, 257, 1044-1064.	4.0	210
363	A novel modular ANN architecture for efficient monitoring of gases/odours in real-time. Materials Research Express, 2018, 5, 045904.	0.8	7
364	Volatile hydrocarbons from endophytic fungi and their efficacy in fuel production and disease control. Egyptian Journal of Biological Pest Control, 2018, 28, .	0.8	13
365	Development of an Integrated CMOS-Microfluidics for Bioelectronic Nose. , 2018, , .		0
366	Effect of the catalyst on the physical and aroma attributes of interesterified milk fat-vegetable oil blends. Brazilian Journal of Food Technology, 2018, 21, .	0.8	2
367	Indoor Localisation using Aroma Fingerprints: Comparing Nearest Neighbour Classification Accuracy using Different Distance Measures. , 2018, , .		2
368	Electronic Noses: From Advanced Materials to Sensors Aided with Data Processing. Advanced Materials Technologies, 2019, 4, 1800488.	3.0	227
369	Application of electronic nose to effectiveness monitoring of air contaminated with toluene vapors biofiltration process. SHS Web of Conferences, 2018, 57, 02014.	0.1	0
370	$$\alpha p;t;i\>EARLY\ DETECTION\ OF\ TRUNK\ BORER\ DAMAGE\ IN\ PLATYCLADUS\ ORIENTALIS\ PLANTS\ USING\ E-NOSE\ AND\ GC-MS\</i>.\ ,\ 2018,\ ,\ .$		0
371	Diagnosis of acute respiratory distress syndrome by exhaled breath analysis. Annals of Translational Medicine, 2018, 6, 33-33.	0.7	24
372	Low Temperature and Highly Selective H $<$ sub $>$ 2 $<$ /sub $>$ Sensing System Using WO $<$ sub $>$ 3 $<$ /sub $>$ -ZnO Heterostructure Decorated with Pd Nanoparticle. , 2018, , .		0
374	Mango Fruit Yield and Critical Quality Parameters Respond to Foliar and Soil Applications of Zinc and Boron. Plants, 2018, 7, 97.	1.6	18
375	IoT-Based Senses for Virtual Enterprises. , 2018, , .		4
376	TruffleBot: Low-Cost Multi-Parametric Machine Olfaction. , 2018, , .		5

#	Article	IF	CITATIONS
377	Different Nanowire Materials Localized Growth and In-Situ Integration for Electronic Nose Applications. , $2018, \dots$		0
378	Discrimination between Alternative Herbal Medicines from Different Categories with the Electronic Nose. Sensors, 2018, 18, 2936.	2.1	14
379	Establishment of an integrated data fusion method between the colorimeter and near-infrared spectroscopy to discriminate the stir-baked Gardenia jasminoides Ellis. Spectroscopy Letters, 2018, 51, 547-553.	0.5	5
380	Applications of Electronic-Nose Technologies for Noninvasive Early Detection of Plant, Animal and Human Diseases. Chemosensors, 2018, 6, 45.	1.8	79
381	Discriminant Analysis of Industrial Gases for Electronic Nose Applications. , 2018, , .		2
382	Ultrasensitive, Low-Power Oxide Transistor-Based Mechanotransducer with Microstructured, Deformable Ionic Dielectrics. ACS Applied Materials & Interfaces, 2018, 10, 31472-31479.	4.0	34
383	Drift-Insensitive Features for Learning Artificial Olfaction in E-Nose System. IEEE Sensors Journal, 2018, 18, 7173-7182.	2.4	23
384	Using an Eâ€nose machine for detection the adulteration of margarine in cow ghee. Journal of Food Process Engineering, 2018, 41, e12806.	1.5	26
385	Organizational and Technological Aspects of a Platform for Collective Food Awareness. Advances in Human-Computer Interaction, 2018, 2018, 1-16.	1.8	4
386	Real Time Measuring System of Multiple Chemical Parameters Using Microstructured Optical Fibers Based Sensors. IEEE Sensors Journal, 2018, 18, 5343-5351.	2.4	7
387	Control of lactic acid bacteria in fermented beverages using lysozyme and nisin: test of traditional beverage boza as a model food system. International Journal of Food Science and Technology, 2018, 53, 2357-2368.	1.3	13
388	Pilot Study: Detection of Gastric Cancer From Exhaled Air Analyzed With an Electronic Nose in Chinese Patients. Surgical Innovation, 2018, 25, 429-434.	0.4	31
390	A compact olfactometer for IMS measurements and testing human perception. International Journal for Ion Mobility Spectrometry, 2018, 21, 71-80.	1.4	2
391	An Electronic Architecture for Multipurpose Artificial Noses. Journal of Sensors, 2018, 2018, 1-9.	0.6	17
392	Application of Fecal Volatile Organic Compound Analysis in Clinical Practice: Current State and Future Perspectives. Chemosensors, 2018, 6, 29.	1.8	11
393	Breathomics for Assessing the Effects of Treatment and Withdrawal With Inhaled Beclomethasone/Formoterol in Patients With COPD. Frontiers in Pharmacology, 2018, 9, 258.	1.6	25
394	Proximal Soil and Plant Sensing. Assa, Cssa and Sssa, 2018, , 119-140.	0.6	16
395	Innovative Diagnostic Methods for Early Prostate Cancer Detection through Urine Analysis: A Review. Cancers, 2018, 10, 123.	1.7	58

#	Article	IF	CITATIONS
396	Recent Applications of Electronic-Nose Technologies for the Noninvasive Early Diagnosis of Gastrointestinal Diseases. Proceedings (mdpi), $2017, 2, .$	0.2	8
397	Response Optimization of a Chemical Gas Sensor Array using Temperature Modulation. Electronics (Switzerland), 2018, 7, 54.	1.8	9
398	Determination of Odour Interactions in Gaseous Mixtures Using Electronic Nose Methods with Artificial Neural Networks. Sensors, 2018, 18, 519.	2.1	47
399	Research on a Visual Electronic Nose System Based on Spatial Heterodyne Spectrometer. Sensors, 2018, 18, 1188.	2.1	4
400	Application of a Novel S3 Nanowire Gas Sensor Device in Parallel with GC-MS for the Identification of Rind Percentage of Grated Parmigiano Reggiano. Sensors, 2018, 18, 1617.	2.1	25
401	Lab-made electronic-nose with polyaniline sensor array used in classification of different aromas in gummy candies. Food Research International, 2018, 113, 309-315.	2.9	19
402	Porphyrin-Functionalized Zinc Oxide Nanostructures for Sensor Applications. Sensors, 2018, 18, 2279.	2.1	25
403	Highly-Selective Optoelectronic Nose Based on Surface Plasmon Resonance Imaging for Sensing Volatile Organic Compounds. Analytical Chemistry, 2018, 90, 9879-9887.	3.2	65
404	Performance evaluation of normalized difference based classifier for efficient discrimination of volatile organic compounds. Materials Research Express, 2018, 5, 095901.	0.8	7
405	A comparison between SVM and PLS for E-nose based gas concentration monitoring. , 2018, , .		17
406	Sensing behavior of flower-shaped MoS ₂ nanoflakes: case study with methanol and xylene. Beilstein Journal of Nanotechnology, 2018, 9, 608-615.	1.5	30
407	Detection of the adulteration in pure cow ghee by electronic nose method (case study: sunflower oil) Tj ETQq $1\ 1$	0.784314	∙rggT/Oved
408	Data processing approaches and strategies for non-destructive fruits quality inspection and authentication: a review. Journal of Food Measurement and Characterization, 2018, 12, 2758-2794.	1.6	23
409	Measuring Vapor and Liquid Concentrations for Binary and Ternary Systems in a Microbubble Distillation Unit via Gas Sensors. Chemosensors, 2018, 6, 31.	1.8	2
410	Evaluation of Hydrocarbon Soil Pollution Using E-Nose. Sensors, 2018, 18, 2463.	2.1	44
411	Application of Electronic-Nose Technologies and VOC-Biomarkers for the Noninvasive Early Diagnosis of Gastrointestinal Diseases. Sensors, 2018, 18, 2613.	2.1	111
412	Evaluation of the Electronic Nose Used for Monitoring Environmental Pollution. , 2018, , .		9
413	Analysis of odors from thermally modified bamboo assessed by an electronic nose. Building and Environment, 2018, 144, 386-391.	3.0	6

#	ARTICLE	IF	Citations
414	The current status of avian aspergillosis diagnoses: Veterinary practice to novel research avenues. Veterinary Clinical Pathology, 2018, 47, 342-362.	0.3	20
415	Instrumental measurement of odour nuisance in city agglomeration using electronic nose. E3S Web of Conferences, 2018, 28, 01012.	0.2	6
416	Design of atomically-thin-body field-effect sensors and pattern recognition neural networks for ultra-sensitive and intelligent trace explosive detection. 2D Materials, 2019, 6, 044002.	2.0	1
417	Determination of Odor Intensity of Binary Gas Mixtures Using Perceptual Models and an Electronic Nose Combined with Fuzzy Logic. Sensors, 2019, 19, 3473.	2.1	13
418	Chemoresistive materials for electronic nose: Progress, perspectives, and challenges. Informa \ddot{A} n \tilde{A} -Materi \tilde{A}_i ly, 2019, 1, 289-316.	8.5	123
419	Averaging Neural Network Ensembles Model for Quantification of Volatile Organic Compound. , 2019, , .		2
420	Green Analytical Chemistry. Green Chemistry and Sustainable Technology, 2019, , .	0.4	32
421	Remote Monitoring of Environmental Pollutants. Green Chemistry and Sustainable Technology, 2019, , 325-352.	0.4	1
423	Evolution of Electronic Noses from Research Objects to Engineered Environmental Odour Monitoring Systems: A Review of Standardization Approaches. Biosensors, 2019, 9, 75.	2.3	30
424	Sensors for detecting pulmonary diseases from exhaled breath. European Respiratory Review, 2019, 28, 190011.	3.0	72
425	Odor Discrimination Using Cell-Based Odor Biosensor System With Fluorescent Image Processing. IEEE Sensors Journal, 2019, 19, 7192-7200.	2.4	15
426	Odorant-Based Detection and Discrimination of Two Economic Pests in Export Apples. Journal of Economic Entomology, 2020, 113, 134-143.	0.8	1
427	A review of current advances in the detection of organophosphorus chemical warfare agents based biosensor approaches. Sensing and Bio-Sensing Research, 2019, 26, 100305.	2.2	47
428	Cuprous Oxide Based Chemiresistive Electronic Nose for Discrimination of Volatile Organic Compounds. ACS Sensors, 2019, 4, 3051-3055.	4.0	20
429	A Metal Oxide Gas Sensors Array for Lung Cancer Diagnosis Through Exhaled Breath Analysis. , 2019, 2019, 1584-1587.		14
430	A Hardware-Deployable Neuromorphic Solution for Encoding and Classification of Electronic Nose Data. Sensors, 2019, 19, 4831.	2.1	21
431	Effect of meteorological conditions on odour emission at biogas plants processing municipal waste – pilot research. E3S Web of Conferences, 2019, 116, 00098.	0.2	1
432	Tracing food packaging contamination: an electronic nose applied to leftover food. Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment, 2019, 36, 1748-1756.	1.1	9

#	ARTICLE	IF	Citations
433	POP-CNN: Predicting Odor Pleasantness With Convolutional Neural Network. IEEE Sensors Journal, 2019, 19, 11337-11345.	2.4	28
434	Electronic nose for smart identification of roofing and paving grade asphalt. Transportation Research Procedia, 2019, 40, 4-11.	0.8	3
435	Electronic Noses in Medical Diagnostics. Current Medicinal Chemistry, 2019, 26, 197-215.	1.2	49
436	Quality level identification of West Lake Longjing green tea using electronic nose. Sensors and Actuators B: Chemical, 2019, 301, 127056.	4.0	29
437	Pattern recognition of solid materials by multiple probe gases. Materials Horizons, 2019, 6, 580-586.	6.4	11
438	Quality Differentiation of Low-Dose Irradiated Navel Oranges by Electronic Sensing Techniques During Storage. Food Analytical Methods, 2019, 12, 1041-1054.	1.3	4
439	Semiconducting Metal Oxides for Gas Sensing. , 2019, , .		36
440	Multi-layer graphene as a selective detector for future lung cancer biosensing platforms. Nanoscale, 2019, 11, 2476-2483.	2.8	39
441	Integration Technologies in Gas Sensor Application. , 2019, , 175-193.		2
442	Aroma detection using a gas sensor array with different polyaniline films. Analytical Methods, 2019, 11, 654-660.	1.3	13
443	Intelligent Selection of Metal–Organic Framework Arrays for Methane Sensing via Genetic Algorithms. ACS Sensors, 2019, 4, 1586-1593.	4.0	44
444	Freshness Assessment of Broccoli using Electronic Nose. Measurement: Journal of the International Measurement Confederation, 2019, 145, 735-743.	2.5	35
445	First-principles study of molecule adsorption on Ni-decorated monolayer MoS2. Journal of Computational Electronics, 2019, 18, 826-835.	1.3	12
446	Rapid Evaluation Methods for Quality of Trout (Oncorhynchus mykiss) Fresh Fillet Preserved in an Active Edible Coating. Foods, 2019, 8, 113.	1.9	16
447	Application of Electronic Nose for Evaluation of Wastewater Treatment Process Effects at Full-Scale WWTP. Processes, 2019, 7, 251.	1.3	21
448	Human augmentation: Past, present and future. International Journal of Human Computer Studies, 2019, 131, 131-143.	3.7	102
449	Nanostructured P3HT as a Promising Sensing Element for Real-Time, Dynamic Detection of Gaseous Acetone. Sensors, 2019, 19, 1296.	2.1	11
450	Breath Analysis Using eNose and Ion Mobility Technology to Diagnose Inflammatory Bowel Disease—A Pilot Study. Biosensors, 2019, 9, 55.	2.3	43

#	Article	IF	CITATIONS
451	A Human-Centered Taxonomy of Interaction Modalities and Devices. Interacting With Computers, 2019, 31, 27-58.	1.0	16
452	Discrimination of Different Species of Dendrobium with an Electronic Nose Using Aggregated Conformal Predictor. Sensors, 2019, 19, 964.	2.1	8
453	Platinum Nanoparticles Decorated Graphene Oxide Based Resistive Device for Enhanced Formaldehyde Sensing: First-Principle Study and its Experimental Correlation. IEEE Transactions on Electron Devices, 2019, 66, 1942-1949.	1.6	15
454	Technical aspects of SAW gas sensors application in environmental measurements. MATEC Web of Conferences, 2019, 252, 06007.	0.1	6
455	A wearable IoT aldehyde sensor for pediatric asthma research and management. Sensors and Actuators B: Chemical, 2019, 287, 584-594.	4.0	33
457	A review of exhaled breath: a key role in lung cancer diagnosis. Journal of Breath Research, 2019, 13, 034001.	1.5	56
458	<i>A Novel feature selection framework for analyzing E-nose data: Application to evaluate the quality of Chinese Dry-Cured Ham</i> . , 2019, , .		1
459	Time Series Feature Extraction for Machine Olfaction. , 2019, , .		1
460	Online Scent Classification by Ion-Mobility Spectrometry Sequences. Frontiers in Applied Mathematics and Statistics, 2019, 5, .	0.7	5
461	Comparison of Difference, Relative and Fractional Methods for Classification of The Black Tea Based on Electronic Nose. , 2019, , .		4
462	Discrimination of Red Wines with a Gas-Sensor Array Based on a Surface-Acoustic-Wave Technique. Micromachines, 2019, 10, 725.	1.4	6
463	Beverage and Food Fragrance Biotechnology, Novel Applications, Sensory and Sensor Techniques: An Overview. Foods, 2019, 8, 643.	1.9	22
464	Portable Low-Cost Electronic Nose Based on Surface Acoustic Wave Sensors for the Detection of BTX Vapors in Air. Sensors, 2019, 19, 5406.	2.1	23
465	Detection of Emerald Ash Borer Infestations in Living Green Ash by Noninvasive Electronic-Nose Analysis of Wood Volatiles. Biosensors, 2019, 9, 123.	2.3	16
466	Detection of lung cancer with electronic nose and logistic regression analysis. Journal of Breath Research, 2019, 13, 016006.	1.5	45
467	Scent classification by K nearest neighbors using ion-mobility spectrometry measurements. Expert Systems With Applications, 2019, 115, 593-606.	4.4	29
468	Progress in the development of olfactory-based bioelectronic chemosensors. Biosensors and Bioelectronics, 2019, 123, 211-222.	5.3	41
469	The Optoelectronic Nose: Colorimetric and Fluorometric Sensor Arrays. Chemical Reviews, 2019, 119, 231-292.	23.0	718

#	Article	IF	CITATIONS
470	Recognition and sensing of organic compounds using analytical methods, chemical sensors, and pattern recognition approaches. Chemometrics and Intelligent Laboratory Systems, 2019, 185, 18-31.	1.8	35
471	Breathprinting Based Diagnosis, Selected Case Study: GCMS and E-Nose Collaborative Approach. , 2019, , 163-181.		3
472	Volatolomics: A broad area of experimentation. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2019, 1105, 136-147.	1.2	32
473	On the optimization of the support vector machine regression hyperparameters setting for gas sensors array applications. Chemometrics and Intelligent Laboratory Systems, 2019, 184, 22-27.	1.8	62
474	New developments on ultrasound-assisted processing and flavor detection of spices: A review. Ultrasonics Sonochemistry, 2019, 55, 297-307.	3.8	34
475	Sick Building Syndrome and Other Building-Related Illnesses. Design Science and Innovation, 2019, , 53-103.	0.1	19
476	Less-Common Carbon Nanostructures. , 2019, , 111-302.		0
477	A novel data pre-processing method for odour detection and identification system. Sensors and Actuators A: Physical, 2019, 287, 113-120.	2.0	17
478	Conducting Nanomaterial Sensor Using Natural Receptors. Chemical Reviews, 2019, 119, 36-93.	23.0	159
479	Treatment of malodorous air in biotrickling filters: A review. Biochemical Engineering Journal, 2019, 141, 146-162.	1.8	82
480	Overview of electronic tongue sensing in environmental aqueous matrices: potential for monitoring emerging organic contaminants. Environmental Reviews, 2019, 27, 202-214.	2.1	29
481	Sensor Systems for Breathprinting: A Review of the Current Technologies for Exhaled Breath Analysis Based on a Sensor Array With the Aim of Integrating Them in a Standard and Shared Procedure., 2019,, 49-79.		4
482	Organic field effect transistors (OFETs) in environmental sensing and health monitoring: A review. TrAC - Trends in Analytical Chemistry, 2019, 111, 27-36.	5.8	84
483	Odor source localization algorithms on mobile robots: A review and future outlook. Robotics and Autonomous Systems, 2019, 112, 123-136.	3.0	129
484	Application of an electronic nose with novel method for generation of smellprints for testing the suitability for consumption of wheat bread during 4-day storage. LWT - Food Science and Technology, 2020, 117, 108665.	2.5	28
485	Internet of Things and Analytics for Agriculture, Volume 2. Studies in Big Data, 2020, , .	0.8	3
486	Integrating Artificial Intelligence and Nanotechnology for Precision Cancer Medicine. Advanced Materials, 2020, 32, e1901989.	11.1	187
487	Application of electronic nose as a non-invasive technique for odor fingerprinting and detection of bacterial foodborne pathogens: a review. Journal of Food Science and Technology, 2020, 57, 1977-1990.	1.4	57

#	Article	IF	CITATIONS
488	Hydrogen sensing mechanism of Ru-loaded WO3 nanosheets. Sensors and Actuators B: Chemical, 2020, 304, 127339.	4.0	23
489	Electronic Nose and Its Applications: A Survey. International Journal of Automation and Computing, 2020, 17, 179-209.	4.5	202
491	The salivary volatome in breast cancer. , 2020, , 301-307.		4
492	Quality grade classification of China commercial moxa floss using electronic nose. Medicine (United) Tj ETQq1	l 0.784314 0.4	rgBT /Overlo
493	Advancements in Microfabricated Gas Sensors and Microanalytical Tools for the Sensitive and Selective Detection of Odors. Sensors, 2020, 20, 5478.	2.1	27
494	Historical Evolution and Food Control Achievements of Near Infrared Spectroscopy, Electronic Nose, and Electronic Tongue—Critical Overview. Sensors, 2020, 20, 5479.	2.1	47
495	Methodology in early detection of conveyor belt fire in coal transportation. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 0 , $1-19$.	1.2	4
496	Variations of volatile flavour compounds in finger citron (Citrus medica L. var. sarcodactylis) pickling process revealed by E-nose, HS-SPME-GC-MS and HS-GC-IMS. Food Research International, 2020, 138, 109717.	2.9	64
497	A Review on the Use of Impedimetric Sensors for the Inspection of Food Quality. International Journal of Environmental Research and Public Health, 2020, 17, 5220.	1.2	26
498	Unravelling the Potential of Salivary Volatile Metabolites in Oral Diseases. A Review. Molecules, 2020, 25, 3098.	1.7	17
499	Glucose oxidase-based biosensor for glucose detection from biological fluids. Sensor Review, 2020, 40, 497-511.	1.0	38
500	Integration of a lowâ€cost electronic nose and a voltammetric electronic tongue for red wines identification. Food Science and Nutrition, 2020, 8, 4330-4339.	1.5	36
501	Semiconductor Gas Sensors: Materials, Technology, Design, and Application. Sensors, 2020, 20, 6694.	2.1	215
502	Development of a Tuneable NDIR Optical Electronic Nose. Sensors, 2020, 20, 6875.	2.1	21
503	Liquid crystal nose based on chiral photonic bandgap materials: principles of selective response. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	1.1	8
504	Analysis of Volatile Components of Auricularia auricula from Different Origins by GC-MS Combined with Electronic Nose. Journal of Food Quality, 2020, 2020, 1-9.	1.4	7
505	An insight in bacteriophage based biosensors with focus on their detection methods and recent advancements. Environmental Technology and Innovation, 2020, 20, 101081.	3.0	19
507	Identification of metabolic markers in patients with type 2 Diabetes by Ultrafast gas chromatography coupled to electronic nose. A pilot study. Biomedical Chromatography, 2020, 34, e4956.	0.8	13

#	Article	IF	CITATIONS
508	Sniffing Out Urinary Tract Infection—Diagnosis Based on Volatile Organic Compounds and Smell Profile. Biosensors, 2020, 10, 83.	2.3	23
509	Signals in the Soil., 2020, , .		19
510	The assessment of the Voice 200Ultra apparatus applicability to field investigations of air quality and odours. Environmental Impact Assessment Review, 2020, 85, 106460.	4.4	2
511	A Concentration-Based Drift Calibration Transfer Learning Method for Gas Sensor Array Data. , 2020, 4, 1-4.		14
512	Optimization of Management Processes in Assessing the Quality of Stored Grain Using Vision Techniques and Artificial Neural Networks. Applied Sciences (Switzerland), 2020, 10, 5721.	1.3	0
513	Opto-Electronic Nose Coupled to a Silicon Micro Pre-Concentrator Device for Selective Sensing of Flavored Waters. Chemosensors, 2020, 8, 60.	1.8	26
515	Detection of Ovarian Cancer through Exhaled Breath by Electronic Nose: A Prospective Study. Cancers, 2020, 12, 2408.	1.7	25
516	Evaluating the Fitness of Combinations of Adsorbents for Quantitative Gas Sensor Arrays. ACS Sensors, 2020, 5, 4035-4047.	4.0	7
517	Systematic Derivation of New Fields of Application for Innovative Bio-based Odour Sensors with Transfected Cells and Analysis of Economic Potentials. , 2020, , .		2
518	Detection of Fungi and Oomycetes by Volatiles Using E-Nose and SPME-GC/MS Platforms. Molecules, 2020, 25, 5749.	1.7	29
519	Polyphenols, Antioxidant Activity and Volatile Compounds in Fermented Leaves of Medicinal Plant Rosebay Willowherb (Chamerion angustifolium (L.) Holub). Plants, 2020, 9, 1683.	1.6	10
520	Evaluation of <i>Semanotus bifasciatus</i> (Motschulsky) Infestation in <i>Platycladus orientalis</i> Plants Using E-Nose and GC-MS. Transactions of the ASABE, 2020, 63, 1629-1637.	1.1	4
521	Electronic nose to distinguish bladder cancer by urinary odour feature: A pilot study. Cancer Biomarkers, 2020, 28, 33-39.	0.8	9
522	Multiarray Nanopattern Electronic Nose (Eâ€Nose) by Highâ€Resolution Topâ€Down Nanolithography. Advanced Functional Materials, 2020, 30, 2002486.	7.8	40
523	Electrochemical biosensing with odorant binding proteins. Methods in Enzymology, 2020, 642, 345-369.	0.4	6
524	The Effectiveness of Varroa destructor Infestation Classification Using an E-Nose Depending on the Time of Day. Sensors, 2020, 20, 2532.	2.1	14
526	Detecting head and neck squamous carcinoma using a portable handheld electronic nose. Head and Neck, 2020, 42, 2555-2559.	0.9	12
527	Sensor Failure Tolerable Machine Learning-Based Food Quality Prediction Model. Sensors, 2020, 20, 3173.	2.1	18

#	Article	IF	CITATIONS
528	Qualitative analysis of edible oil oxidation using an olfactory machine. Journal of Food Measurement and Characterization, 2020, 14, 2600-2610.	1.6	53
529	Bio-Inspired Strategies for Improving the Selectivity and Sensitivity of Artificial Noses: A Review. Sensors, 2020, 20, 1803.	2.1	33
530	Enhanced control release of thyme essential oils from electrospun nanofiber/polyamidoamine dendritic polymer for antibacterial platforms. Polymers for Advanced Technologies, 2020, 31, 1719-1731.	1.6	9
531	Principles and recent advances in electronic nose for quality inspection of agricultural and food products. Trends in Food Science and Technology, 2020, 99, 1-10.	7.8	160
532	Wireless E-Nose Sensors to Detect Volatile Organic Gases through Multivariate Analysis. Micromachines, 2020, 11, 597.	1.4	21
533	Hybrid nanocomposites and their potential applications in the field of nanosensors/gas and biosensors. , 2020, , 253-280.		11
534	Electronic noses and tongues. , 2020, , 353-389.		11
535	Sensors to Detect Sarin Simulant. Critical Reviews in Analytical Chemistry, 2021, 51, 299-311.	1.8	11
536	An experimental and theoretical study of molecularly imprinted electrode based on methyl methacrylate polymer for pesticide detection. Japanese Journal of Applied Physics, 2020, 59, SIIJ09.	0.8	7
537	Detection of Beef Adulterated with Pork Using a Low-Cost Electronic Nose Based on Colorimetric Sensors. Foods, 2020, 9, 193.	1.9	41
538	Evaluation of trunk borer infestation duration using MOS E-nose combined with different feature extraction methods and GS-SVM. Computers and Electronics in Agriculture, 2020, 170, 105293.	3.7	27
539	Design and development of instrumentation for the measurement of sensor array responses. Review of Scientific Instruments, 2020, 91, 024101.	0.6	1
540	Methods for Early Detection of Microbiological Infestation of Buildings Based on Gas Sensor Technologies. Chemosensors, 2020, 8, 7.	1.8	20
542	4th International Conference on Internet of Things and Connected Technologies (ICIoTCT), 2019. Advances in Intelligent Systems and Computing, 2020, , .	0.5	1
543	The odour assessment of thyme essential oils in electrospun fibre mat with a virtual sensor array data and its relation to antibacterial activity. Journal of Microencapsulation, 2020, 37, 144-159.	1.2	6
544	Chemical sensor systems based on 2D and thin film materials. 2D Materials, 2020, 7, 022002.	2.0	34
545	Comparison of bayberry fermented wine aroma from different cultivars by GCâ€MS combined with electronic nose analysis. Food Science and Nutrition, 2020, 8, 830-840.	1.5	22
547	Improvement of sensitivity of surface plasmon resonance imaging for the gas-phase detection of volatile organic compounds. Talanta, 2020, 212, 120777.	2.9	11

#	Article	IF	CITATIONS
549	High Throughput Screening of Surface Modificated In ₂ O ₃ for VOC Gas Sensing Array Optimization. IEEE Sensors Journal, 2020, 20, 7318-7325.	2.4	11
550	A Smart Rig for Calibration of Gas Sensor Nodes. Sensors, 2020, 20, 2341.	2.1	4
551	Experimental design and chemometric techniques applied in electronic nose analysis of wood-aged sugar cane spirit (cachaça). Journal of Agriculture and Food Research, 2020, 2, 100037.	1.2	8
552	Classification and Regression of Binary Hydrocarbon Mixtures using Single Metal Oxide Semiconductor Sensor With Application to Natural Gas Detection. Sensors and Actuators B: Chemical, 2021, 326, 129012.	4.0	22
553	Numerical expression of odor intensity of volatile compounds from automotive polypropylene. Sensors and Actuators A: Physical, 2021, 321, 112426.	2.0	4
554	Blockchain-Enabled Fish Provenance and Quality Tracking System. IEEE Internet of Things Journal, 2022, 9, 8130-8142.	5.5	17
555	Artificial Olfaction for Detection and Classification of Gases Using e-Nose and Machine Learning for Industrial Application. Studies in Computational Intelligence, 2021, , 35-48.	0.7	0
556	Utilisation of a Portable Electronic Nose, NeOse Pro, to Follow the Microbial Fermentation of a Yoghurt. Food and Nutrition Sciences (Print), 2021, 12, 90-105.	0.2	3
557	State-of-the-Art Technologies for Improving the Quality of Medicinal and Aromatic Plants. , 2021, , 593-627.		1
558	Hydrogen detection properties of palladium sputtered polyacrylonitrile nanofibrous layers. Polymers for Advanced Technologies, 2021, 32, 1763-1773.	1.6	2
559	A Comparison of Various Algorithms for Classification of Food Scents Measured with an Ion Mobility Spectrometry. Sensors, 2021, 21, 361.	2.1	1
560	Auswertung und Visualisierung von Daten komplexer Sensorsysteme zur Bestimmung von Geruchsstoffen in wÄßrigen LĶsungen. TM Technisches Messen, 2021, 88, 189-197.	0.3	0
561	Volatile Organic Compounds (VOCs) Sensors for Stress Management in Crops. Concepts and Strategies in Plant Sciences, 2021, , 81-95.	0.6	0
562	Identification of Mint Scents Using a QCM Based E-Nose. Chemosensors, 2021, 9, 31.	1.8	27
563	Nanoengineering Approaches Toward Artificial Nose. Frontiers in Chemistry, 2021, 9, 629329.	1.8	18
565	Market Perspectives and Future Fields of Application of Odor Detection Biosensors within the Biological Transformation—A Systematic Analysis. Biosensors, 2021, 11, 93.	2.3	13
566	A Short Review of Cavity-Enhanced Raman Spectroscopy for Gas Analysis. Sensors, 2021, 21, 1698.	2.1	23
567	Plant pest surveillance: from satellites to molecules. Emerging Topics in Life Sciences, 2021, 5, 275-287.	1.1	21

#	Article	IF	CITATIONS
568	Advances in Plant Disease Detection and Monitoring: From Traditional Assays to In-Field Diagnostics. Sensors, 2021, 21, 2129.	2.1	76
570	Advances in Multiplexed Paperâ€Based Analytical Devices for Cancer Diagnosis: A Review of Technological Developments. Advanced Materials Technologies, 2021, 6, 2001138.	3.0	6
571	An In ₂ O ₃ Nanotubes based Gas Sensor Array combined with Machine Learning Algorithms for Trimethylamine Detection., 2021,,.		1
572	Review: Influences of Semiconductor Metal Oxide Properties on Gas Sensing Characteristics. Frontiers in Sensors, 2021, 2, .	1.7	105
573	A comparison between PLSR, SVMR and NARX network for the mint treatment day prediction based on multisensor system. , 2021, , .		4
574	Feasibility of a Portable Electronic Nose for Detection of Oral Squamous Cell Carcinoma in Sudan. Healthcare (Switzerland), 2021, 9, 534.	1.0	16
575	The First Application of 1H NMR Spectroscopy for the Assessment of the Authenticity of Perfumes. Molecules, 2021, 26, 3098.	1.7	3
576	Early detection of fruit infested with Bactrocera tryoni. Postharvest Biology and Technology, 2021, 175, 111496.	2.9	4
577	Polymer-based gas sensors to detect meat spoilage: A review. Reactive and Functional Polymers, 2021, 165, 104962.	2.0	32
578	Classification and Identification of Essential Oils from Herbs and Fruits Based on a MOS Electronic-Nose Technology. Chemosensors, 2021, 9, 142.	1.8	53
579	Design and Validation of a Portable Machine Learning-Based Electronic Nose. Sensors, 2021, 21, 3923.	2.1	18
580	Perspectives of Nano-Materials and Nanobiosensors in Food Safety and Agriculture. , 0, , .		7
581	An Overview of Artificial Olfaction Systems with a Focus on Surface Plasmon Resonance for the Analysis of Volatile Organic Compounds. Biosensors, 2021, 11, 244.	2.3	27
582	Real-time monitoring of plant stresses via chemiresistive profiling of leaf volatiles by a wearable sensor. Matter, 2021, 4, 2553-2570.	5.0	93
583	Application of E-nose combined with ANN modelling for qualitative and quantitative analysis of benzoic acid in cola-type beverages. Journal of Food Measurement and Characterization, 2021, 15, 5131-5138.	1.6	6
584	Comparative Analysis of OFETs Materials and Devices for Sensor Applications. Silicon, 2022, 14, 4463-4471.	1.8	4
585	Detection of the bacteria concentration level in pasteurized milk by using two different artificial multisensory methods. Sensing and Bio-Sensing Research, 2021, 33, 100428.	2.2	13
586	Biological metal organic framework (Bio-MOF) for detection of voltaic organic compounds (VOC's). Inorganic Chemistry Communication, 2021, 130, 108711.	1.8	14

#	Article	IF	CITATIONS
587	A Machine Learning Method for Classification and Identification of Potato Cultivars Based on the Reaction of MOS Type Sensor-Array. Sensors, 2021, 21, 5836.	2.1	36
588	Performance Analysis of MAU-9 Electronic-Nose MOS Sensor Array Components and ANN Classification Methods for Discrimination of Herb and Fruit Essential Oils. Chemosensors, 2021, 9, 243.	1.8	33
589	Nanocomposite-Based Chemiresistive Electronic Nose and Application in Coffee Analysis. ACS Food Science & Technology, 2021, 1, 1464-1471.	1.3	5
590	MOS Sensors Array for the Discrimination of Lung Cancer and At-Risk Subjects with Exhaled Breath Analysis. Chemosensors, 2021, 9, 209.	1.8	17
591	Optimization of removal of offâ€odor in mullet (<i>Channa Argus ⟨i⟩) head soup by yeast using response surface methodology and variations of volatile components during fermentation. Journal of Food Processing and Preservation, 2021, 45, e15920.</i>	0.9	2
592	Temperature induced helical contraction and expansion in branched polycarbodiimides and their solvent vapor sensing properties. Journal of Macromolecular Science - Pure and Applied Chemistry, 2022, 59, 11-19.	1.2	2
593	A Nanocolumnar Tantalum Oxide-Guided Mode Resonance Sensor for Volatile Organic Compounds. ACS Applied Nano Materials, 2021, 4, 9665-9672.	2.4	3
594	Humidity Sensor Based on PEO/PEDOT:PSS Blends for Breath Monitoring. Macromolecular Materials and Engineering, 2021, 306, 2100489.	1.7	10
595	Electronic-Nose as Non-destructive Tool to Discriminate "Ferrovia―Sweet Cherries Cold Stored in Air or Packed in High CO2 Modified Atmospheres. Frontiers in Nutrition, 2021, 8, 720092.	1.6	8
596	Theory helps experiment to reveal VOCs in human breath. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 258, 119785.	2.0	13
597	Detection and identification of fungal species by electronic nose technology: A systematic review. Fungal Biology Reviews, 2021, 37, 59-70.	1.9	21
598	A direct relationship between the sensitivity of the sensors and the intensity of IR CO2 peak in <i>in situ</i> FTIR-LCR meter chemi-impedance SnO2–carbon nanoparticles polymer-based sensors in the detection of organic compounds vapor. AIP Advances, 2021, 11, .	0.6	4
599	Mildly-doped polythiophene with triflates for molecular recognition. Synthetic Metals, 2021, 280, 116890.	2.1	4
600	Insect odorant receptor-based biosensors: Current status and prospects. Biotechnology Advances, 2021, 53, 107840.	6.0	19
601	Application of E-nose technology combined with artificial neural network to predict total bacterial count in milk. Journal of Dairy Science, 2021, 104, 10558-10565.	1.4	7
602	Developing non-invasive bladder cancer screening methodology through potentiometric multisensor urine analysis. Talanta, 2021, 234, 122696.	2.9	10
603	Instrumentation and Process Control. , 2022, , 336-355.		0
604	A Framework for an Artificial-Neural-Network-Based Electronic Nose. , 2022, , 350-374.		0

#	Article	IF	CITATIONS
605	Electronic Nose and Tongue Materials for Sensing. , 2021, , .		1
606	Nanosensors for food quality control especially essential oils. , 2021, , 273-288.		0
607	Quality Assessment of Milk by Sensory and Instrument Methods. , 2021, , 383-425.		2
608	Breathomics in Chronic Airway Diseases. , 2021, , 244-255.		1
609	Toward a Stochastic Drift Simulation Model for Graphene-Based Gas Sensors. IEEE Sensors Journal, 2022, 22, 11307-11316.	2.4	5
610	Semiconductor Nanomaterials for Gas Sensor Applications. Environmental Chemistry for A Sustainable World, 2020, , 305-355.	0.3	2
611	Signals in the Soil: Subsurface Sensing. , 2020, , 251-297.		7
612	Comparison of Probabilistic versus Non-probabilistic Electronic Nose Classification Methods in an Animal Model. Lecture Notes in Computer Science, 2015, , 298-303.	1.0	1
613	Biomimetic Materials and Structures for Sensor Applications. , 2017, , 3-25.		3
614	Nanosensors for Food and Agriculture. Sustainable Agriculture Reviews, 2017, , 41-79.	0.6	4
615	Wavelet Based Fuzzy Inference System for Simultaneous Identification and Quantitation of Volatile Organic Compounds Using SAW Sensor Transients. Lecture Notes in Computer Science, 2011, , 319-327.	1.0	2
616	Applications of Machine Olfaction. Biological and Medical Physics Series, 2014, , 207-241.	0.3	1
617	Ethical Implications of Sensory Prostheses. , 2015, , 785-797.		7
619	Sampling, Detection, Identification, and Analysis of Bacterial Volatile Organic Compounds (VOCs)., 2020, , 281-304.		1
621	Electronic Noses and Tongues in the Food Industry. , 2016, , 1-12.		10
622	Recent Advances in Gas and Humidity Sensors Based on 3D Structured and Porous Graphene and Its Derivatives. , 2020, 2, 1381-1411.		50
623	Towards Drift Modeling of Graphene-Based Gas Sensors Using Stochastic Simulation Techniques. , 2020, , .		8
624	Meat, Poultry, and Seafood. , 0, , 109-167.		20

#	Article	IF	CITATIONS
625	Odor Adsorption Kinetics on Modified Textile Materials Using Quartz Microbalance Technique. Acta Physica Polonica A, 2012, 121, 243-246.	0.2	7
626	Synthesis of Hollow Carbon Microspheres with Mesoporous Shell and Vacant Core Structure and Their Electrochemical Properties. Applied Chemistry for Engineering, 2016, 27, 449-454.	0.2	1
627	The "olfactory fingerprint― can diagnostics be improved by combining canine and digital noses?. Clinical Chemistry and Laboratory Medicine, 2020, 58, 958-967.	1.4	16
628	Detection of Wastewater Treatment Process Disturbances in Bioreactors Using the E-Nose Technology. Ecological Chemistry and Engineering S, 2018, 25, 405-418.	0.3	3
629	Effect of high hydrostatic pressure treatments on volatiles of berry purées. Acta Alimentaria, 2014, 43, 51-57.	0.3	2
630	Electronic-nose Applications in Forensic Science and for Analysis of Volatile Biomarkers in the Human Breath. Journal of Forensic Science & Criminology, 2014, 1 , .	0.0	9
631	Recent Developments in Human Odor Detection Technologies. Journal of Forensic Science $\&$ Criminology, 2014, 1, .	0.0	21
632	Characterization of volatiles in red- and white-fleshed loquat (Eriobotrya japonica) fruits by electronic nose and headspace solid-phase microextraction with gas chromatography-mass spectrometry. Food Science and Technology, 2020, 40, 21-32.	0.8	11
633	The next generation of rapid point-of-care testing identification tools for ventilator-associated pneumonia. Annals of Translational Medicine, 2017, 5, 451-451.	0.7	19
634	DEVELOPMENT OF NEURAL NETWORK-BASED ELECTRONIC NOSE FOR HERBS RECOGNITION. International Journal on Smart Sensing and Intelligent Systems, 2014, 7, 584-609.	0.4	14
635	Dog Nose to E-Nose in Disease Diagnosis. Journal of Advances in Biology, 0, 11, 2294-2306.	0.3	3
636	Detection of Microorganisms with an Electronic Nose for Application under Microgravity Conditions. Gravitational and Space Research: Publication of the American Society for Gravitational and Space Research, 2020, 8, 1-17.	0.3	7
637	Development of Application Specific Electronic Nose for Monitoring the Atmospheric Hazards in Confined Space. Advances in Science, Technology and Engineering Systems, 2019, 4, 200-216.	0.4	2
638	Odour Emissions of Municipal Waste Biogas Plantsâ€"Impact of Technological Factors, Air Temperature and Humidity. Applied Sciences (Switzerland), 2020, 10, 1093.	1.3	15
639	Assessment of the Portable C-320 Electronic Nose for Discrimination of Nine Insectivorous Bat Species: Implications for Monitoring White-Nose Syndrome. Biosensors, 2020, 10, 12.	2.3	11
640	A Framework for an Artificial-Neural-Network-Based Electronic Nose. Advances in Computer and Electrical Engineering Book Series, 2018, , 1-24.	0.2	1
641	Application of Electronic Nose Systems on Animal-Source Food. Advances in Computer and Electrical Engineering Book Series, 2018, , 151-174.	0.2	8
642	Volatile Organic Compounds as Novel Markers for the Detection of Bacterial Infections. Clinical Microbiology (Los Angeles, Calif), 2014, 03, .	0.2	17

#	Article	IF	CITATIONS
643	Analysis of the influence of panel characteristics on odor measurement based on the air dilution olfactory method in Korea. Environmental Engineering Research, 2019, 24, 91-98.	1.5	2
644	Application of electronic nose for determination of Slovak cheese authentication based on aroma profile. Potravinarstvo, 2019, 13, 262-267.	0.5	11
646	Advances in the Early Detection of Lung Cancer using Analysis of Volatile Organic Compounds: From Imaging to Sensors. Asian Pacific Journal of Cancer Prevention, 2014, 15, 4377-4384.	0.5	27
647	Assessment of Physicochemical Characteristics among Different Types of Pale Ale Beer. Korean Journal of Food Science and Technology, 2013, 45, 142-147.	0.0	16
648	Encapsulation for Masking Off-Flavor and Off-Tasting in Food Production., 2021,, 223-253.		1
649	Role of Artificial Intelligence in Cancer Nanotheranostics. Nanotechnology in the Life Sciences, 2021, , 285-304.	0.4	0
650	DeepSniffer: A meta-learning-based chemiresistive odor sensor for recognition and classification of aroma oils. Sensors and Actuators B: Chemical, 2022, 351, 130960.	4.0	8
651	"Nanotechnical―Structures and Devices. , 2012, , 383-429.		0
652	Toward Sensor to Reproduce Human Sense. Biological and Medical Physics Series, 2014, , 115-142.	0.3	0
653	Sensor Used in E-nose. Biological and Medical Physics Series, 2014, , 143-180.	0.3	0
654	Sensory Enhancement., 2015,, 827-838.		3
655	Artificial Olfactory Systems. , 2015, , 1-20.		0
656	Droplet-Based Biochemical Reaction on Lab-on-a-Chip., 2016,, 479-492.		4
657	Combined Features with Global and Local Features for Gas Classification. Journal of the Korea Society of Computer and Information, 2016, 21, 11-18.	0.0	0
658	Electronic Nose Technology Based on Quantum Dot Filters. Optics and Photonics Journal, 2017, 07, 26-32.	0.3	0
659	Electronic Nose Applications. Advances in Computer and Electrical Engineering Book Series, 2018, , 104-131.	0.2	0
662	Machine Learning Techniques to Select a Reduced and Optimal Set of Sensors for the Design of Ad Hoc Sensory Systems. Lecture Notes in Electrical Engineering, 2019, , 405-416.	0.3	0
663	Utilization of e-Nose Sensory Modality as Add-On Feature for Advanced Driver Assistance System. International Journal of Advanced Trends in Computer Science and Engineering, 2019, 6, 1783-1788.	0.6	2

#	Article	IF	CITATIONS
664	Selected Sensor Technology Innovation in Food Quality and Safety., 2020, , 59-88.		2
665	Odors and cancer: Current status and future directions. Biochimica Et Biophysica Acta: Reviews on Cancer, 2022, 1877, 188644.	3.3	27
666	The Study of Raw Water Based on Quality Parameter Using Smell-Print Sensing Device. Lecture Notes in Electrical Engineering, 2020, , 193-203.	0.3	2
667	Odor Sensing Techniques. Advances in Computational Intelligence and Robotics Book Series, 2020, , 73-96.	0.4	0
668	The Best Approach for Early Detection of Fungi in Tomato Sauce. Lecture Notes in Electrical Engineering, 2020, , 239-246.	0.3	0
669	CVD Diamond and Nanodiamond: Versatile Materials for Countering a Wide Range of CBRN Threats. NATO Science for Peace and Security Series B: Physics and Biophysics, 2020, , 141-170.	0.2	0
670	Analysis of MEMS and Metamaterial Based Sensors and Its Involvement in Nanotechnology. Advances in Intelligent Systems and Computing, 2020, , 115-125.	0.5	2
671	Computational Model Of Plasma-Organic-Polymer-Film-Coated QCR Sensor For Analysing Its Dynamic Response. International Journal on Smart Sensing and Intelligent Systems, 2014, 7, 1-4.	0.4	0
672	High-Dimensional Time Series Feature Extraction for Low-Cost Machine Olfaction. IEEE Sensors Journal, 2020, , 1-1.	2.4	11
673	Fuzzy Logic-Based Decision Support for Paddy Quality Estimation in Food Godown. Lecture Notes in Electrical Engineering, 2020, , 279-286.	0.3	1
674	Functional principal component analysis for near-infrared spectral data: a case study on Tricholoma matsutakeis. International Journal of Food Engineering, 2020, 16, .	0.7	2
675	Odor Analysis Method. , 0, , 105-140.		1
677	Early diagnosis and screening in lung cancer. American Journal of Cancer Research, 2020, 10, 1993-2009.	1.4	5
678	Review and MOD future implications. , 2022, , 199-220.		0
680	Beef Quality Assesment with Electronic Nose Based on an Application Specific Convolution Neural Network., 2021,,.		0
681	The Potential Use of Volatile Biomarkers for Malaria Diagnosis. Diagnostics, 2021, 11, 2244.	1.3	4
682	Handling non-stationarity in E-nose design: a review. Sensor Review, 2022, 42, 39-61.	1.0	2
683	Volatile profiles of cooked organic sweetpotato by electronic nose. Organic Agriculture, 2022, 12, 17-32.	1.2	1

#	Article	IF	CITATIONS
684	Poly(3,4-ethylenedioxythiophene) Electrosynthesis in the Presence of Mixtures of Flexible-Chain and Rigid-Chain Polyelectrolytes. Polymers, 2021, 13, 3866.	2.0	8
685	A perception-based nanosensor platform to detect cancer biomarkers. Science Advances, 2021, 7, eabj0852.	4.7	43
686	Mechanism, indexes, methods, challenges, and perspectives of edible oil oxidation analysis. Critical Reviews in Food Science and Nutrition, 2023, 63, 4901-4915.	5.4	14
687	Gas discrimination based on enhanced gas-species related information obtained by a single gas sensor with novel temperature modulation. Sensors and Actuators B: Chemical, 2022, 354, 131225.	4.0	16
688	Strategic framing of enabling technologies: Insights from firms digitizing smell and taste. Research Policy, 2022, 51, 104469.	3.3	4
689	Current progress in plant pathogen detection enabled by nanomaterials-based (bio)sensors. Sensors and Actuators Reports, 2022, 4, 100068.	2.3	18
690	Microcontroller Based Sensor-Array Data Acquisition System for Electronic Nose., 2020,,.		0
691	An Efficient Sensory System for Intelligent Gas Monitoring Accurate classification and precise quantification of gases/ odors. , 2020, , .		1
692	Soil and soil breathing remote monitoring: A short review. Biosystems Diversity, 2021, 28, 350-356.	0.2	5
693	Fabrication and Characterization of ZnO nanorods for room temperature Carbon Monoxide sensing application. , 2020, , .		0
694	Electronic Nose for Bladder Cancer Detection. Chemistry Proceedings, 2021, 5, .	0.1	1
695	Parameter optimization of a gas sensing chamber for the detection of Volatile Organic Compounds using Finite Element Method., 2021,,.		1
696	IoT based Smart Applications and Recent Research Trends. , 2021, , .		14
697	Chemical Sensors: Wearable Sensors. , 2023, , 260-280.		1
698	Food products safety. , 2022, , 757-768.		0
699	Toward the Development of Combined Artificial Sensing Systems for Food Quality Evaluation: A Review on the Application of Data Fusion of Electronic Noses, Electronic Tongues and Electronic Eyes. Sensors, 2022, 22, 577.	2.1	36
700	Fusion of a low-cost electronic nose and Fourier transform near-infrared spectroscopy for qualitative and quantitative detection of beef adulterated with duck. Analytical Methods, 2022, 14, 417-426.	1.3	17
701	Artificial Olfactory Systems. , 2022, , 343-362.		0

#	ARTICLE	IF	CITATIONS
702	Organophosphorus pesticides: Impacts, detection and removal strategies. Environmental Nanotechnology, Monitoring and Management, 2022, 17, 100655.	1.7	20
703	Effects of High-Pressure, Hydrothermal, and Enzyme-Assisted Treatment on the Taste and Flavor Profile of Water-Soluble Ginger (Zingiber officinale) Extract. Foods, 2022, 11, 508.	1.9	11
704	Identification of Chemical Vapor Mixture Assisted by Artificially Extended Database for Environmental Monitoring. Sensors, 2022, 22, 1169.	2.1	3
705	Exhaled Breath Semiconductor Sensors for Diagnostics of Respiratory Diseases. Armenian Journal of Physics, 0, , 13-24.	0.0	2
706	System Design and SVM Identification Algorithm for the Ultrasonically Catalyzed Single-Sensor E-Nose. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-9.	2.4	5
707	Design and construction of a portable e-nose system for human exhaled breath VOC analysis. Materials Today: Proceedings, 2022, 58, 422-427.	0.9	4
708	Electronic Noses and Their Applications for Sensory and Analytical Measurements in the Waste Management Plants—A Review. Sensors, 2022, 22, 1510.	2.1	19
709	Sensor Array Optimization to Design and Develop an Electronic Nose System for the Detection of Water Stress in Khasi Mandarin Orange. Journal of Circuits, Systems and Computers, 2022, 31, .	1.0	3
710	Strain-Based Chemiresistive Polymer-Coated Graphene Vapor Sensors. ACS Omega, 2022, 7, 10765-10774.	1.6	2
711	Grape Cultivar Identification and Classification by Machine Olfaction Analysis of Leaf Volatiles. Chemosensors, 2022, 10, 125.	1.8	23
712	Infrared cavity ring-down spectroscopy for detecting non-small cell lung cancer in exhaled breath. Journal of Breath Research, 2022, 16, 026008.	1.5	7
713	Comparison of the performance of metal oxide and conducting polymer electronic noses for detection of aflatoxin using artificially contaminated maize. Sensors and Actuators B: Chemical, 2022, 360, 131681.	4.0	17
714	Seafood freshness: e-nose data for classification purposes. Food Control, 2022, 138, 108994.	2.8	22
715	Wine Quality Assessment with Application Specific 2D Single Channel Convolutional Neural Networks. , 2021, , .		0
716	Temperature Stability Investigations of Neural Network Models for Graphene-Based Gas Sensor Devices. , 2021, 10, .		0
717	Comparison of Cheese Aroma Intensity Measured Using an Electronic Nose (E-Nose) Non-Destructively with the Aroma Intensity Scores of a Sensory Evaluation: A Pilot Study. Sensors, 2021, 21, 8368.	2.1	8
718	Rapid Detection of Urea Fertilizer Effects on VOC Emissions from Cucumber Fruits Using a MOS E-Nose Sensor Array. Agronomy, 2022, 12, 35.	1.3	29
719	Neural Network Robustness Analysis Using Sensor Simulations for a Graphene-Based Semiconductor Gas Sensor. Chemosensors, 2022, 10, 152.	1.8	6

#	Article	IF	CITATIONS
730	A Readout System for High Speed Interface of Wide Range Chemiresistive Sensor Array. IEEE Access, 2022, 10, 45726-45735.	2.6	2
731	Smart Electronic Nose Enabled by an Allâ€Feature Olfactory Algorithm. Advanced Intelligent Systems, 2022, 4, .	3.3	17
732	Commercial Off-the-Shelf Components (COTS) in Realizing Miniature Implantable Wireless Medical Devices: A Review. Sensors, 2022, 22, 3635.	2.1	5
733	Detection of deltamethrin remains in mint with an electronic device coupled to chemometric methods. E3S Web of Conferences, 2022, 351, 01023.	0.2	0
734	Pollution parameters evaluation of wastewater collected at different treatment stages from wastewater treatment plant based on E-nose and E-tongue systems combined with chemometric techniques. Chemometrics and Intelligent Laboratory Systems, 2022, 227, 104593.	1.8	6
735	Electronic Nose Algorithm Design Using Classical System Identification for Odour Intensity Detection. SSRN Electronic Journal, 0, , .	0.4	0
736	Classification of Coffee Variety using Electronic Nose. , 2022, , .		2
737	Correlation Analysis between Sensors for Sensing Coffee Variations. , 2022, , .		0
738	Rhizospheric volatilome in modulating induced systemic resistance against biotic stress: A new paradigm for future food security. Physiological and Molecular Plant Pathology, 2022, 120, 101852.	1.3	8
739	A Hybrid Wireless Electrodeless Qcm-D System for Volatile Organic Compounds Discrimination. SSRN Electronic Journal, 0, , .	0.4	0
740	Introduction to Biorenewable Nanocomposite Materials: Methods of Preparation, Current Developments, and Future Perspectives. ACS Symposium Series, 0, , 1-24.	0.5	5
741	Effects of Frying Conditions on Volatile Composition and Odor Characteristics of Fried Pepper (Zanthoxylum bungeanum Maxim.) Oil. Foods, 2022, 11, 1661.	1.9	1
742	Fentanyl Assay Derived from Intermolecular Interaction-Enabled Small Molecule Recognition (iMSR) with Differential Impedance Analysis for Point-of-Care Testing. Analytical Chemistry, 2022, 94, 9242-9251.	3.2	7
743	Versatile Applications of Nanotechnology based Electronic Nose. Nanoscience and Nanotechnology - Asia, 2022, 12, .	0.3	0
744	Silicon photonic olfactory sensor based on an array of 64 biofunctionalized Mach-Zehnder interferometers. Optics Express, 2022, 30, 33955.	1.7	14
7 45	ET VE ET ÜRÜNLERİNDE TAKLİT TAĞŞİŞ VE HİLELERİN BELİRLENMESİNDE KULLANILAN KROM/ Helal Ve Etik Araştırmalar Dergisi, 0, , .	ATOGRAFÄ 0.2	,°K _O YÃ−NTEN
746	Application of an Electronic Nose and HS-SPME/GC-MS to Determine Volatile Organic Compounds in Fresh Mexican Cheese. Foods, 2022, 11, 1887.	1.9	10
747	Ambient Parameter Monitoring in Fresh Fruit and Vegetable Supply Chains Using Internet of Things-Enabled Sensor and Communication Technology. Foods, 2022, 11, 1777.	1.9	14

#	Article	IF	Citations
748	Design of sustainable and environmental friendly processes for industries. , 2022, , 485-497.		0
749	Recent Progress in Electronic Noses for Fermented Foods and Beverages Applications. Fermentation, 2022, 8, 302.	1.4	20
750	Demonstration of a Sensitive and Stable Chemical Gas Sensor Based on Covalently Functionalized MoS ₂ ., 2022, 4, 1475-1480.		8
751	Evaluation of aroma characteristics in grass carp mince as affected by different washing processes using an E-nose, HS-SPME-GC-MS, HS-GC-IMS, and sensory analysis. Food Research International, 2022, 158, 111584.	2.9	38
752	An Al-powered Electronic Nose System with Fingerprint Extraction for Aroma Recognition of Coffee Beans. Micromachines, 2022, 13, 1313.	1.4	3
7 53	Carbon Dioxide Detectors based on Al―and Niâ€Doped ZnO. Physica Status Solidi (A) Applications and Materials Science, 0, , 2200247.	0.8	0
754	Electronic nose algorithm design using classical system identification for odour intensity detection. Measurement: Journal of the International Measurement Confederation, 2022, 202, 111677.	2.5	0
755	Emission of volatile organic compounds from heat-treated Scots pine wood as affected by wood drying method: Results obtained with olfactory machine and headspace gas chromatography-mass spectrometry. Drying Technology, 2023, 41, 577-589.	1.7	1
756	A Multivariate Computational Approach With Hybrid Graphene Oxide Sensor Array for Partial Fulfillment of Breath Acetone Sensing. IEEE Sensors Journal, 2022, 22, 20207-20215.	2.4	2
757	Physio-Metabolic Monitoring via Breath Employing Real-Time Mass Spectrometry: Importance, Challenges, Potentials, and Pitfalls. Bioanalytical Reviews, 2022, , 1-18.	0.1	2
758	System Security Employing Odor Identification with Neural Networks. , 2022, , .		0
7 59	Trends in the Development of Electronic Noses Based on Carbon Nanotubes Chemiresistors for Breathomics. Nanomaterials, 2022, 12, 2992.	1.9	11
760	Applications of Electronic Nose Coupled with Statistical and Intelligent Pattern Recognition Techniques for Monitoring Tea Quality: A Review. Agriculture (Switzerland), 2022, 12, 1359.	1.4	14
761	Effects of flavourzyme addition on protein degradation and flavor formation in grass carp during fermentation. Journal of Food Biochemistry, 2022, 46, .	1.2	1
762	A Virtual Electronic Nose for the Efficient Classification and Quantification of Volatile Organic Compounds. Sensors, 2022, 22, 7340.	2.1	3
763	Development of an Algorithm for Cervical High-Grade Squamous Intraepithelial Lesion Based on Breath Print Analysis. Journal of Lower Genital Tract Disease, 2023, 27, 7-11.	0.9	1
764	Prospecting the role of nanotechnology in extending the shelf-life of fresh produce and in developing advanced packaging. Food Packaging and Shelf Life, 2022, 34, 100955.	3.3	9
765	Bacteriophage and Virus Engineering. , 2022, , 123-144.		0

#	Article	IF	CITATIONS
766	Sensors for the Food Industry: An Introduction. Food Chemistry, Function and Analysis, 2022, , 1-21.	0.1	0
767	IOT based classification of transformer faults using emerging techniques of E-nose and ANFIS. Frontiers in Energy Research, 0, 10, .	1.2	3
768	Machine Learning-Based Rapid Detection of Volatile Organic Compounds in a Graphene Electronic Nose. ACS Nano, 2022, 16, 19567-19583.	7. 3	23
769	Fiber Optic Sensors for Gas Detection: An Overview on Spin Frustrated Multiferroics., 0,,.		0
770	Non-destructive Quality Evaluation of Litchi Fruit Using e-Nose System. Advances in Intelligent Systems and Computing, 2023, , 177-188.	0.5	0
771	Chemiresistive Sensor Arrays for Gas/Volatile Organic Compounds Monitoring: A Review. Advanced Engineering Materials, 2023, 25, .	1.6	23
772	Perspectives on Pathogenic Plant Virus Control with Essential Oils for Sustainability of Agriculture 4.0. , 0, , .		0
773	Simplified inelastic electron tunneling spectroscopy based on low-noise derivatives. Scientific Reports, 2022, 12, .	1.6	1
774	Electronic Nose Analysis and Statistical Methods for Investigating Volatile Organic Compounds and Yield of Mint Essential Oils Obtained by Hydrodistillation. Chemosensors, 2022, 10, 486.	1.8	7
775	Electronic Nose for Fresh Produce Quality. , 2022, , 357-374.		0
776	Targeting biomarkers in the gas phase through a chemoresistive electronic nose based on graphene functionalized with metal phthalocyanines. RSC Advances, 2022, 13, 251-263.	1.7	9
777	Selective gas detection using conductivity-based MEMS resonator and machine learning. , 2022, , .		O
778	A Novel Multi-Dimensional Feature Extraction Framework of Data Sampled by Electronic Nose. , 2022, , .		0
779	Advances in Materials and Technologies for Gas Sensing from Environmental and Food Monitoring to Breath Analysis. Advanced Sustainable Systems, 2023, 7, .	2.7	10
780	Aromatic Characteristics of Passion Fruit Wines Measured by E-Nose, GC-Quadrupole MS, GC-Orbitrap-MS and Sensory Evaluation. Foods, 2022, 11, 3789.	1.9	3
781	GLAD Based Advanced Nanostructures for Diversified Biosensing Applications: Recent Progress. Biosensors, 2022, 12, 1115.	2.3	5
782	Odour impact assessment using kinetics and optimization: case studies on removal of multiple volatile organo-sulphur compounds from sewage wastewater using porous functional materials. Environmental Monitoring and Assessment, 2023, 195, .	1.3	0
783	Elektronik Burun Metal Oksit Yarı İletken Sensörlerin Gıda Analizlerinde Kullanımı. Akademik Gıda, 0, 454-473.	'0.5	0

#	Article	IF	CITATIONS
784	Analysis of microbial community and its correlation with flavor compounds during Congee fermentation. Food Bioscience, 2023, 51, 102261.	2.0	3
785	Research on the Product Design of Wood Identification based on Electronic Nose. , 2022, , .		0
786	Domain Adaptation on Asymmetric Drift Data for an Electronic Nose. IEEE Transactions on Instrumentation and Measurement, 2023, 72, 1-11.	2.4	2
787	Odour Nuisance Monitoring. , 2023, , 95-113.		0
788	Application of Machine Learning Methods for an Analysis of E-Nose Multidimensional Signals in Wastewater Treatment. Sensors, 2023, 23, 487.	2.1	10
789	The Detection of Bacteria in the Maxillary Sinus Secretion of Patients With Acute Rhinosinusitis Using an Electronic Nose: A Pilot Study. Annals of Otology, Rhinology and Laryngology, 0, , 000348942311513.	0.6	0
790	Characteristics of array MOS gas sensors in detection of adulteration on patchouli oil with candlenut oil. AIP Conference Proceedings, 2023, , .	0.3	1
791	The Influence of Mechanical Bowel Preparation on Volatile Organic Compounds for the Detection of Gastrointestinal Diseaseâ€"A Systematic Review. Sensors, 2023, 23, 1377.	2.1	2
792	Measurement of Volatile Fatty Acids in Silage through Odors with Nanomechanical Sensors. Biosensors, 2023, 13, 152.	2.3	7
793	MOX-Based Resistive Gas Sensors with Different Types of Sensitive Materials (Powders, Pellets, Films), Used in Environmental Chemistry. Chemosensors, 2023, 11, 95.	1.8	4
794	Machine-learning assisted multiplex detection of catecholamine neurotransmitters with a colorimetric sensor array. Analytical Methods, 2023, 15, 1123-1134.	1.3	4
795	Multiarray nanopatterned (top-down nanolithography) e-nose. , 2023, , 101-124.		1
796	Electronic-Nose: An Array of 16 MOS-Gas Sensors Integrated With Temperature and Moisture Sensing Capabilities. , 2023, , .		0
797	Fungal volatiles have physiological properties. Fungal Biology, 2023, 127, 1231-1240.	1.1	5
798	On-Site Detection of Volatile Organic Compounds (VOCs). Molecules, 2023, 28, 1598.	1.7	21
799	Current perspectives of e-noses. , 2023, , 433-456.		O
800	E-noses for agri-food productions. , 2023, , 281-298.		1
801	Comparison and discrimination of the terpenoids in 48 species of huajiao according to variety and geographical origin by E-nose coupled with HS-SPME-GC-MS. Food Research International, 2023, 167, 112629.	2.9	9

#	Article	IF	CITATIONS
802	The use of novel electronic nose technology to locate missing persons for criminal investigations. IScience, 2023, 26, 106353.	1.9	3
803	Potential for Early Noninvasive COVID-19 Detection Using Electronic-Nose Technologies and Disease-Specific VOC Metabolic Biomarkers. Sensors, 2023, 23, 2887.	2.1	7
804	Prediction of Maple Syrup Quality from Maple Sap with a Plasmonic Tongue and Ordinal Mixed-Effects Modeling. ACS Food Science & Technology, 2023, 3, 635-647.	1.3	1
805	Cloud Based Smart Kitchen Automation and Monitoring. , 2022, , .		0
806	Quality assessment of traditional Chinese medicine based on data fusion combined with machine learning: A review. Critical Reviews in Analytical Chemistry, 0 , , $1-18$.	1.8	5
807	Gas Array Sensors based on Electronic Nose for Detection of Tuna (Euthynnus Affinis) Contaminated by Pseudomonas Aeruginosa. Journal of Medical Signals and Sensors, 2022, 12, 306.	0.5	6
808	Technological tools for the measurement of sensory characteristics in food: A review. F1000Research, 0, 12, 340.	0.8	0
809	Introduction in Gas Sensing. , 2023, , 161-175.		0
810	Toxic gases detection using PARAFAC and PCA to protect the environment. Materials Today: Proceedings, 2023, , .	0.9	0
811	Electronic nose as a tool for early detection of diseases and quality monitoring in fresh postharvest produce: A comprehensive review. Comprehensive Reviews in Food Science and Food Safety, 2023, 22, 2408-2432.	5.9	5
819	FPGA based odour recognition with TensorFlow and High- Level Synthesis. , 2022, , .		0
825	Integration Technologies in Gas Sensor Application. , 2023, , 299-324.		0
828	Recent developments of e-sensing devices coupled to data processing techniques in food quality evaluation: a critical review. Analytical Methods, 0, , .	1.3	0
835	Multifunctional Materials for the Sensing of Gases. Advances in Chemical and Materials Engineering Book Series, 2023, , 128-158.	0.2	0
836	Research progress of electronic nose technology in exhaled breath disease analysis. Microsystems and Nanoengineering, 2023, 9, .	3.4	6
838	Smart Sensor Arrays. Springer Series on Bio- and Neurosystems, 2024, , 265-285.	0.2	0
841	Application of machine learning models for data interpretation from an array of gas sensors., 2023,,.		0
845	The Fifteenth Volume on Chemical Signals in Vertebrates: Some Reflections. , 2023, , 1-7.		0

#	ARTICLE	IF	CITATIONS
847	Polymer-Based Virtual Sensor Array Leveraging Fringing Field Capacitance for VOC Detection., 2023,,.		О
850	An Encoder-Decoder Structure With Strong Resistance to Sensor Drift in Machine Olfaction. , 2023, , .		0
859	Microbial Volatile Compounds (MVOCs) in Food Industries and Food Safety Applications. Advances in Medical Technologies and Clinical Practice Book Series, 2024, , 75-96.	0.3	0
861	Detection of Sensor-to-Sensor Variations Using Explainable Al. , 2023, , .		0
863	An Overview of Fungal Volatile Organic Compounds (VOCs). , 2024, , 83-111.		0